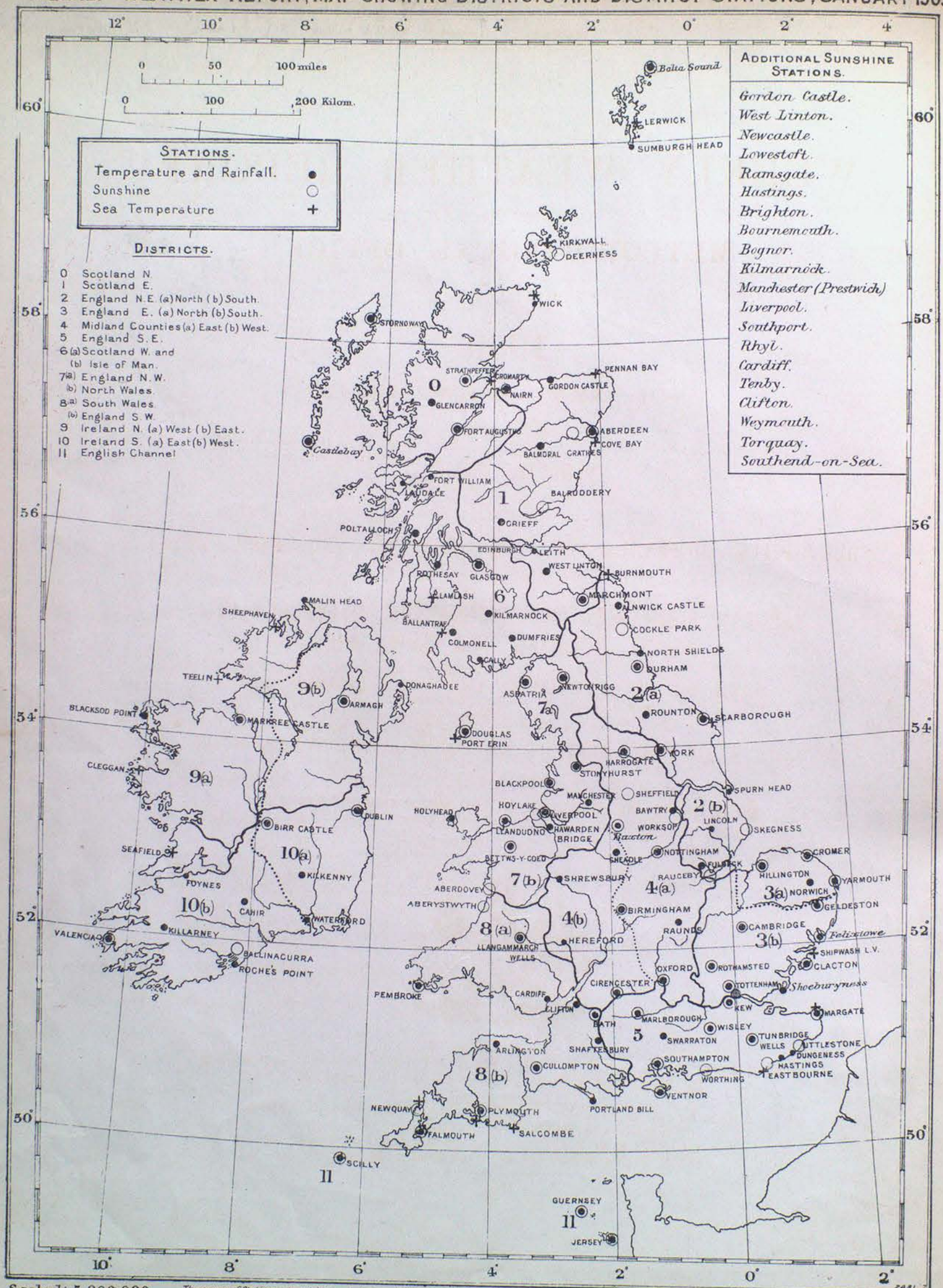
WEEKLY WEATHER REPORT, MAP SHOWING DISTRICTS AND DISTRICT STATIONS, JANUARY 1909.



Scale 1: 5,000,000.

The names of Stations not used in the calculations of Meteorological values for Districts for the elements rainfall and temperature are shewn in italic type. The positions of sunshine stations are not shown if the values are not incorporated in the District values.

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THE

WEEKLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

FOR THE YEAR

1909

(VOL. XXVI.—NEW SERIES)

CONTAINING

SYNOPTIC CHARTS,

AND

DESCRIPTIVE SUMMARIES OF THE WEATHER FOR EACH DAY;

ALSO

TABULAR SUMMARIES OF TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE, FOR EACH WEEK,

WITH THREE APPENDICES AND FRONTISPIECE MAP

AND FORMING

PART I. OF THE BRITISH METEOROLOGICAL YEAR BOOK.

Published by the Authority of the Meteorological Committee.

LONDON:
PRINTED FOR HIS MAJESTY'S STATIONERY OFFICE,
By DARLING & SON, Ltd., 34-40, Bacon Street, E.

And to be purchased, either directly or through any Bookseller, from
WYMAN and SONS, Ltd., Fetter Lane, E.C.; or
OLIVER & BOYD, Tweeddale Court, Edinburgh; or
E. PONSONBY, 116, Grafton Street, Dublin.

1909.

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Issued as a Supplement to the Weekly Weather Report and forming Part II. of the British Meteorological Year Book.

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PREFACE.

The only change in the arrangement of the Weekly Weather Report for the year 1909 will be in the units adopted for stating the results of the observations in the Upper Air. Particulars of the change are given below.

The general arrangement of the weekly issues of the Report is as follows :—

I. General Remarks and characterisation of the warmth, rainfall, and sunshine of each district.
II. Weekly, Seasonal, and Annual Summaries, arranged under *Districts*.
III. Weekly Summary arranged under *Stations*.
IV. Temperature on the Grass and in the Ground.
V. Temperature of the Sea.
VI. Daily Charts.
VII. Observations in the Upper Air.

The information given under each of these heads may be summarised as follows :—

I. *General Remarks* on the weather for the week. A tabular statement describing the warmth, rainfall and sunshine experienced in each district in accordance with the following definitions :—

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The meteorological character of the current season and of the last four completed seasons is summarised in a table giving for each season the number of occasions on which the warmth, rainfall and sunshine fell within each of the three main divisions.

II. *Weekly Summary* for *Districts*.—The Tabular Summary on the second page of each Report gives for the week and for each District :—

Temperature.—The highest and lowest observed, with the dates of their occurrence, the mean maximum, the mean minimum, the mean temperature, and its difference from the average for the corresponding period. The values for "accumulated temperature" above 42° F. and below 42° F. for the week and for the periods from the beginning of the season and of the year, and the differences from the average values for the corresponding periods. The averages* are derived from observations extending over the 25 years 1881–1905.

Rainfall.—The total fall and the number of rain-days for the week, and for the part of the season and year to date, together with the differences from average* for the corresponding periods based on observations from 1881–1905.

Bright Sunshine.—The number of hours of sunshine recorded, and the percentage ratio of that time to the whole time during which the sun was above the horizon : also the progressive values reckoned from the commencement of the season and of the year, together with the differences between these values and the averages* for the corresponding periods in the 25 years 1881 to 1905.

III. *Weekly Summary* for *Stations*.—This appears on the third page in each weekly issue and contains the data used in the preparation of the Summaries on the first page, the values being set out for each Station. The information given is in nearly the same form as that presented for each District in II., but cumulative values for the season and the year are not given for stations. Values not used for the calculation of summaries for districts are printed in italic type.

IV. *Temperature on the Grass and in the Ground*.—For selected stations the number of occasions during the week on which the temperature on the grass fell to 30° or below this limit, and the minimum temperature ; the mean temperature in the ground at depths of 1 foot and 4 feet. This table was first added in the 18th week of 1906.

V. The mean temperature of the surface of the sea, and the highest and lowest readings at a selection of stations on the coast of the British Islands. This table has been included since the commencement of 1907.

* For particulars of the method of computing average values for districts, *see* Preface to the Weekly Weather Report for 1907.

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VI. *Daily Charts.*—These are three in number for each day, and they show the distribution of pressure and wind over the whole of Europe at 7 a.m. and 6 p.m., and the temperature, weather, and sea disturbance at 7 a.m. each day. The maps are accompanied by a brief account of the weather conditions for the day, and the changes that have taken place since the previous day.

VII. *Observations in the Upper Air.*—The temperature, humidity, and wind direction and velocity at various heights in the free atmosphere, as determined from experiments with kites or balloons, have been given since the commencement of 1906.

The results of kite ascents are shown on the last page of each issue of the report. Results obtained from experiments with registering balloons or pilot balloons are shown on the fourth page.

The observing stations which contribute regularly to the report are the following :—

Pyrton Hill, Oxon, W. H. Dines, F.R.S., for the Office.

Glossop, the Howard Estate Meteorological Observatory, Professor J. E. Petavel, F.R.S., W. A. Harwood, T. V. Pring, for the University of Manchester.

Petersfield, Ditcham Park, C. J. P. Cave, J.P.

Brighton, S. H. R. Salmon.

From the commencement of 1909, the results of observations in the upper air will be stated in metric units.

In order to avoid negative values, the temperatures will be given in Centigrade degrees from the "absolute zero" or, more strictly speaking, from 273° below the freezing point of water ; and in recording the air pressure for different points of the ascents the unit of one megadyne per square centimetre or one million absolute C.G.S. centimetre-gramme-second units of pressure will be employed because the megadyne represents practically the normal surface pressure at the level of the observing stations and consequently the pressure figures in megadynes per square centimetre (mgd.) give the fraction of pressure of the atmosphere which is still above the instrument. Thus an entry in the pressure column of 0·527 mgd. means that the instrument was at a point where the atmospheric pressure was reduced approximately to ·527 of the surface value. It is noteworthy that the conversion from mm. of mercury (in latitude 45°) to mgd. can be carried out with an accuracy of 0·1 mm. by adding one third and moving the decimal point and that a megadyne per square centimetre exceeds the kilogramme per square centimetre by less than 2 per cent.

The units adopted for the various elements are as follows :—

Altitude, Metres (m.) or Kilometres (km.).

Wind Direction, Angular measure from North through East.

Wind Velocity, Metres per second (mps.).

Temperature, the absolute scale of centigrade degrees (Freezing point of water=273° A., Normal Boiling point of water=373° A.).

Pressure, Megadynes per square centimetre (mgd.).

Tables for converting from British Units to the metric or absolute units are given below (pp. 6, 7).

Stations and Districts.

The stations used in the preparation of the Report are shown in the Frontispiece Map. Particulars of their altitudes &c. will be found in the introduction to the Monthly Weather Report. Observations from *Lairg* (Sutherland) are no longer available, and in their place, data from *Strathpeffer Spa* (Cromarty) will be used in 1909 for the computation of district values for temperature and rainfall for District 0. The sunshine records from this station have been used in the Report since 1898. In order to obtain a better representation of the inland portion of district 9 (Inland North) data for temperature and rainfall from *Birr Castle* (King's County), which lies very near the boundary separating districts 9 and 10, will be included in district 9 as well as in district 10. The sunshine data will be included in the district values for district 10 only.

The boundaries of the 12 districts into which the British Islands are divided are shown on the map. Their subdivisions are also shown.

Daily Mean Temperature.

The daily Mean Temperature shown in the Tables in the *Weekly* Reports is calculated from the mean between the daily maxima and minima, due regard being had for the varying relation found to subsist, from month to month, between the true mean temperature of the day derived from 24 hourly observations, and the means of the daily maxima and minima for a series of years, as recorded at Greenwich and at the self-registering Observatories of the Meteorological Committee.

The approximate Mean Temperature for any week is found by multiplying the *difference* between the means of the seven observed maxima and minima by the proper coefficient for the month (shown in the following Table), and adding the product to the mean of the minima :—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example :

The mean maximum temperature for a week in December being - - 48°·1

The mean minimum - - - - - - - - - - - - - - 39°·3

The difference is- - - - - - - - - - - - - - 8°·8

This difference 8·8 × ·520 (the coefficient for December) = 4·6.

This value when added to the mean minimum (39·3) gives 43°·9, the required mean temperature of the week.

ACCUMULATED TEMPERATURE.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard, or *base temperature*. For *Districts*, cumulative values for the whole period since the commencement of the season and the year are published in addition to the values for each week. The base temperature adopted is 42° F., as being nearly equivalent to 6° C. This has been considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The Accumulated Temperature is expressed in "Day-degrees,"—a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours, or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature of the day gives the correct accumulated temperature. In other cases this difference gives only an approximate value for the accumulated temperature, not departing greatly from the truth—the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, an approximation to the accumulated temperature for the day.

The following rules, however, supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in this Report. They may be applied to any other base temperature as well as to 42° F., with the slight modification of the numerical coefficients mentioned below.

RULES for computing, for a WEEKLY PERIOD, from the observed MAXIMA and MINIMA, the ACCUMULATED TEMPERATURE above or below 42° F.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.

2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply :—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F. -	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the coefficient 0·4.
If the mean for the day is *below* 42° F., but the maximum is *above* 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the coefficient 0·4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F. or *equal* to 42° F. -	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the *average daily* value, and must be multiplied by 7 in order to obtain the value for the whole week.

The coefficient varies with the duration of the period, and also with the base temperature.

The coefficient given above, in cases 2 and 3, is for a weekly period, and for the base temperature 42° F. The following are its values for other base temperatures,—for 32° F., 0·4 ; for 52° F., 0·33 ; for 62° F., 0·25.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878.

DAILY CHARTS.

In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus : ⟫⟶ = a heavy gale ; ⤚⟶ = a gale ; ⟶ = a fresh to strong breeze ; ⟶ = a light to moderate breeze ; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows :—b = blue sky ; c = detached clouds ; o = overcast ; m = misty (hazy) ; f = foggy ; q = squally ; r = rain ; h = hail ; s = snow ; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for the morning are prepared from observations made at 8 a.m. in Spain ; at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway, and Sweden ; at 6.51 a.m. in France and Algeria ; at 6 a.m. in Italy and Austria ; at 5.25 a.m. in Greece ; at 4.59 a.m. in Russia ; and at 8.36 a.m. in Portugal.

The Chart for the evening is prepared from observations taken at 6 p.m. in the British Islands and Spain ; 4 p.m. in Portugal ; 5.25 p.m. in Greece ; 5.51 p.m. in France ; 6.51 p.m. in Algeria ; 6.59 p.m. in Russia ; 7 p.m. in Germany, Holland, Denmark, Norway, and Sweden ; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich time.

Conversion Tables for Expressing the Results of Observations in the Upper Air in Absolute Units.

A.—Altitude Scales.

Conversion of English Feet to Metres.

English Feet.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.
	Metres.									
0	0	0·3	0·6	0·9	1·2	1·5	1·8	2·1	2·4	2·7
10	3·1	3·4	3·7	4·0	4·3	4·6	4·9	5·2	5·5	5·8
20	6·1	6·4	6·7	7·0	7·3	7·6	7·9	8·2	8·5	8·8
30	9·1	9·5	9·8	10·1	10·4	10·7	11·0	11·3	11·6	11·9
40	12·2	12·5	12·8	13·1	13·4	13·7	14·0	14·3	14·6	14·9
50	15·2	15·5	15·9	16·2	16·5	16·8	17·1	17·4	17·7	18·0
60	18·3	18·6	18·9	19·2	19·5	19·8	20·1	20·4	20·7	21·0
70	21·3	21·6	21·9	22·3	22·6	22·9	23·2	23·5	23·8	24·1
80	24·4	24·7	25·0	25·3	25·6	25·9	26·2	26·5	26·8	27·1
90	27·4	27·7	28·0	28·4	28·7	29·0	29·3	29·6	29·9	30·2
100	30·5	30·8	31·1	31·4	31·7	32·0	32·3	32·6	32·9	33·2

1 Kilometre = 1,000 metres.

The above table may be used also for converting heights expressed in English Feet into Kilometres by suitably adjusting the decimal point, *e.g.*, 45,000 ft. = 13·7 km.; 6,700 ft. = 2·04 km.

Conversion of Kilometres into English Feet up to 25 km.

Km.	1,000 Feet.	Km.	1,000 Feet.	Km.	1,000 Feet.	Km.	1,000 Feet.	Km.	1,000 Feet.
0·5	1·6	5·5	18·0	10·5	34·4	15·5	50·9	20·5	67·3
1·0	3·3	6·0	19·7	11·0	36·1	16·0	52·5	21·0	68·9
1·5	4·9	6·5	21·3	11·5	37·7	16·5	54·1	21·5	70·5
2·0	6·6	7·0	23·0	12·0	39·4	17·0	55·8	22·0	72·2
2·5	8·2	7·5	24·6	12·5	41·0	17·5	57·4	22·5	73·8
3·0	9·8	8·0	26·2	13·0	42·7	18·0	59·1	23·0	75·5
3·5	11·5	8·5	27·9	13·5	44·3	18·5	60·7	23·5	77·1
4·0	13·1	9·0	29·5	14·0	45·9	19·0	62·3	24·0	78·7
4·5	14·8	9·5	31·2	14·5	47·6	19·5	64·0	24·5	80·4
5·0	16·4	10·0	32·8	15·0	49·2	20·0	65·6	25·0	82·0

B.—Wind Measurements.

Conversion of Wind Velocity in Miles per Hour into Metres per Second.

Miles per Hour.	0.	1.	2.	3	4.	5.	6.	7.	8.	9.
	Metres per Second.									
0	0·00	0·5	0·9	1·3	1·8	2·2	2·7	3·1	3·6	4·0
10	4·5	4·9	5·4	5·8	6·3	6·7	7·2	7·6	8·1	8·5
20	8·9	9·4	9·8	10·3	10·7	11·2	11·6	12·1	12·5	13·0
30	13·4	13·9	14·3	14·8	15·2	15·7	16·1	16·5	17·0	17·4
40	17·9	18·3	18·8	19·2	19·7	20·1	20·6	21·0	21·5	21·9
50	22·4	22·8	23·3	23·7	24·1	24·6	25·0	25·5	26·0	26·4
60	26·8	27·3	27·7	28·2	28·6	29·1	29·5	30·0	30·4	30·9
70	31·3	31·7	32·2	32·6	33·1	33·5	34·0	34·4	34·9	35·3
80	35·8	36·2	36·7	37·1	37·6	38·0	38·4	38·9	39·3	39·8
90	40·2	40·7	41·1	41·6	42·0	42·5	42·9	43·4	43·8	44·3
100	44·7	45·2	45·6	46·0	46·5	46·9	47·4	47·8	48·3	48·7
110	49·2	49·6	50·1	50·5	51·0	51·4	51·9	52·3	52·8	53·2
120	53·6	54·1	54·5	55·0	55·4	55·9	56·3	56·8	57·2	57·7
130	58·1	58·6	59·1	59·5	59·9	60·4	60·8	61·2	61·7	62·1
140	62·5	63·0	63·5	63·9	64·4	64·8	65·3	65·7	66·2	66·6

Sin 11¼° = Cos 78¾° = ·195.
Sin 22½° = Cos 67½° = ·383.
Sin 33¾° = Cos 56¼° = ·556.
Sin 45° = Cos 45° = ·707.
Sin 56¼° = Cos 33¾° = ·832.
Sin 67½° = Cos 22½° = ·924.
Sin 78¾° = Cos 11¼° = ·981.

Conversion of Wind Velocity in Metres per Second into Miles per Hour.

Metres per Second.	0.	1.	2.	3.	4.	5.	6.	7.	8.	9.
	Miles per Hour.									
0	0	2·2	4·5	6·7	9·0	11·2	13·4	15·7	17·9	20·1
10	22·4	24·6	26·8	29·1	31·3	33·6	35·8	38·0	40·3	42·5
20	44·7	47·0	49·2	51·5	53·7	55·9	58·2	60·4	62·6	64·9
30	67·1	69·4	71·6	73·8	76·1	78·3	80·5	82·8	85·0	87·2
40	89·5	91·7	94·0	96·2	98·4	100·7	102·9	105·1	107·4	109·6
50	111·9	114·1	116·3	118·6	120·8	123·0	125·3	127·5	129·7	132·0
60	134 2	136·5	138·7	140·9	143·2	145·4	147·6	149·9	152·1	155·7

Conversion of Wind Direction into Angular Measure.

Direction.	Angle.	Direction.	Angle.	Direction.	Angle.	Direction.	Angle.
N.	360	E.	90	S.	180	W.	270
N. by E.	11¼	E. by S.	101¼	S. by W.	191¼	W. by N.	281¼
N.N.E.	22½	E.S.E.	112½	S.S.W.	202½	W.N.W.	292½
N.E. by N.	33¾	S.E. by E.	123¾	S.W. by S.	213¾	N.W. by W.	303¾
N.E.	45	S.E.	135	S.W.	225	N.W.	315
N.E. by E.	56¼	S.E. by S.	146¼	S.W. by W.	236¼	N.W. by N.	326¼
E.N.E	67½	S.S.E.	157½	W.S.W.	247½	N.N.W.	337½
E. by N.	78¾	S by E.	168¾	W. by S.	258¾	N. by W.	348¾

C.—Temperature Measurements.

Conversion of Degrees Centigrade and Fahrenheit into Degrees Absolute. Freezing Point = 273°.

C.	A.	F.	C.	A.	F.	C.	A.	F.	C.	A.	F.
—73	200	—99·4	—48	225	—54·4	—23	250	—9·4	+2	275	+35·6
72	01	97·6	47	26	52·6	22	51	7·6	3	76	37·4
71	02	95·8	46	27	50·8	21	52	5·8	4	77	39·2
70	03	94·0	45	28	49·0	20	53	4·0	5	78	41·0
69	04	92·2	44	29	47·2	19	54	2·2	6	79	42·8
68	05	90·4	43	30	45·4	18	55	— 0·4	7	80	44·6
67	06	88·6	42	31	43·6	17	56	+ 1·4	8	81	46·4
66	07	86·8	41	32	41·8	16	57	3·2	9	82	48·2
65	08	85·0	40	33	40·0	15	58	5·0	10	83	50·0
64	09	83·2	39	34	38·2	14	59	6·8	11	84	51·8
63	10	81·4	38	35	36·4	13	60	8·6	12	85	53·6
62	11	79·6	37	36	34·6	12	61	10·4	13	86	55·4
61	12	77·8	36	37	32·8	11	62	12·2	14	87	57·2
60	13	76·0	35	38	31·0	10	63	14·0	15	88	59·0
59	14	74·2	34	39	29·2	9	64	15·8	16	89	60·8
58	15	72·4	33	40	27·4	8	65	17·6	17	90	62·6
57	16	70·6	32	41	25·6	7	66	19·4	18	91	64·4
56	17	68·8	31	42	23·8	6	67	21·2	19	92	66·2
55	18	67·0	30	43	22·0	5	68	23·0	20	93	68·0
54	19	65·2	29	44	20·2	4	69	24·8	21	94	69·8
53	20	63·4	28	45	18·4	3	70	26·6	22	95	71·6
52	21	61·6	27	46	16·6	2	71	28·4	23	96	73·4
51	22	59·8	26	47	14·8	—1	72	30·2	24	97	75·2
50	23	58·0	25	48	13·0	**0**	**273**	**32**	25	98	77·0
—49	224	—56·2	—24	249	—11·2	+1	274	+33·8	+26	299	+78·8

D.—Pressure Measurements.

CONVERSION OF BAROMETRIC MEASURES IN MILLIMETRES AT 0° C. IN LATITUDE 45° TO MEGADYNES PER SQUARE CENTIMETRE.

Millimetres.	0	10	20	30	40	50	60	70	80	90
	MEGADYNES PER SQUARE CENTIMETRE.									
100	·133	·146	·160	·173	·187	·200	·213	·227	·240	·253
200	·267	·280	·293	·307	·320	·333	·347	·360	·373	·387
300	·400	·413	·427	·440	·453	·467	·480	·493	·507	·520
400	·533	·547	·560	·573	·587	·600	·613	·627	·640	·653
500	·667	·680	·693	·707	·720	·733	·747	·760	·773	·787
600	·800	·813	·827	·840	·853	·867	·880	·893	·907	·920
700	·933	·947	·960	·973	·986	1·000	1·013	1·027	1·040	1·053

Increments for changes by millimetre intervals.								
1	2	3	4	5	6	7	8	9
·0013	·0027	·0040	·0053	·0067	·0080	·0093	·0107	·0120

A pressure due to 10 mm. of Mercury at freezing point in latitude 45° is equal to $1{\cdot}3332 \times 10^4$ dynes per square centimetre. The conversion from millimetres to megadynes per square centimetre may therefore be made in a very simple manner by taking $\frac{1}{3}$ of the value in millimetres and adding it to the original value, the decimal point being suitably adjusted, thus :—

$$759{\cdot}6 \text{ mms.} = \left(759{\cdot}6 + \frac{759{\cdot}6}{3}\right)\frac{1}{1000} \text{ mgd.}$$
$$= 1{\cdot}0128 \text{ mgd.}$$

CONVERSION OF PRESSURE MEASUREMENTS IN INCHES TO MEGADYNES PER SQUARE CENTIMETRE.

Inches.	mgd.	Inches.	mgd.	Inches.	mgd.	Inches.	mgd.	Inches.	mgd.	Inches.	mgd.
5·0	·169	10·0	·339	15·0	·508	20·0	·677	25·0	·847	30·0	1·016
5·5	·186	10·5	·356	15·5	·525	20·5	·694	25·5	·864	30·5	1·033
6·0	·203	11·0	·373	16·0	·542	21·0	·711	26·0	·881	31·0	1·050
6·5	·220	11·5	·389	16·5	·559	21·5	·728	26·5	·898	31·5	1·067
7·0	·237	12·0	·406	17·0	·576	22·0	·745	27·0	·914		
7·5	·254	12·5	·423	17·5	·593	22·5	·762	27·5	·931		
8·0	·271	13·0	·440	18·0	·610	23·0	·779	28·0	·948		
8·5	·288	13·5	·458	18·5	·627	23·5	·796	28·5	·965		
9·0	·305	14·0	·474	19·0	·644	24·0	·813	29·0	·982		
9·5	·322	14·5	·491	19·5	·660	24·5	·830	29·5	·999		

INCREMENTS FOR CHANGES BY TENTH INCH INTERVALS.

1.	2.	3.	4.
·003	·007	·010	·014

INCREMENTS FOR CHANGES BY HUNDREDTH INCH INTERVALS.

1.	2.	3.	4.	5.	6.	7.	8.	9.
·000	·001	·001	·001	·002	·002	·002	·003	·003

APPENDICES.

Appendix I. will be issued for each quarter of the year in the form adopted in the corresponding Appendix of 1908. It shows for each quarter and for the whole year (1) the number of rain-days, (2) the total rainfall and its percentage of the average, (3) the mean temperature and its difference from the average, (4) the duration of bright sunshine and its percentage of the average for each year of the period 1878 to 1909. The averages are computed in each case for the 25 years 1881–1905.

Appendix II., the resumé of weekly values for districts, will be published in the same form as in previous years.

Appendix III. gives a summary of the occasions on which wind velocities amounting to or exceeding 39 statute miles in the hour, as recorded by a "Dines" pressure tube anemometer or by a "Robinson" cup anemometer, with the factor adjusted to give the corresponding result, were recorded at any of the anemometer stations in connexion, with the Office. This table takes the place of the wind force supplement Tables published as Appendix III. to the Report for 1907 and 1908, as special supplements to the Reports for 1905 and 1906, and in the Annual Reports of the Meteorological Council for the years 1902, 1903, 1904.

The British Meteorological Year Book.

The various serial statistical publications of the Meteorological Office have been grouped together under the general title "British Meteorological Year Book."

For the year 1909 the parts of the Year Book are as follows :—

Part I.—The Weekly Weather Report with three appendices. Issued on Thursday of each week. Price 6*d*. per number. Annual subscription (which includes the Monthly Weather Report) 30*s*., postage paid.

Part II.—Monthly Weather Report. Issued monthly on the 27th of each month, with an annual summary, as a supplement to the Weekly Weather Report. Price 6*d*. each issue.

Part III.—Observations at Stations of the Second Order and at Anemograph Stations. Issued in monthly parts, within about six weeks of the close of each month. Price 1*s*. 6*d*. each issue.

Part IV.—Hourly Readings at the Four Observatories in connexion with the Meteorological Office. Issued in monthly sections for each Observatory within about six weeks of the close of each month. Price 6*d*. each section.

Meteorological Office,
London, S.W.,
Reprinted May, 1909.

Thirty-second Year.
VOL. XXVI. [*New Series.*] SPECIAL APPENDIX. [*Price 4d.*

CORRECTIONS AND ADDITIONS FOR DECEMBER, 1909.

Number and Page of Report.	Numbers of Districts and Names of Stations.	TEMPERATURE. Highest observed.	Date.	Lowest observed.	Date.	Mean for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the week from Average, 25 Years.	Accumulated Heat for the week in Day-degrees. Above 42°	Below 42°	RAINFALL. No. of Rain-days.	Rain-fall in the Week.	Difference from the Average for the Week, 25 Years.	BRIGHT SUNSHINE. Number of Hours Recorded.	Difference from the Average for the Week, 25 Years.	Percentage of possible duration.	Difference from the Average for the week, 25 Years.
District Values.		°		°		°	°	°	°	Day-deg.	Day-deg.		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 50, p. 402 ..	2. England, N.E.	—	—	—	—	—	—	—	—	—	—	—	0·33	-0·25	—	—	—	—
No. 51, p. 410 ..	0. Scotland, N.	—	—	—	—	—	—	—	—	—	—	—	1·10	-0·10	—	—	—	—
No. 51, p. 410 ..	6. Scotland, W.	—	—	—	—	—	—	—	—	—	—	—	1·28	+0·18	—	—	—	—
Station Values, Additions.																		
No. 50, p. 403 ..	Lincoln	47	12th	35	16, 18	42·0	37·0	39·6	+ 0·6	0	17	6	0·51	+0·08	—	—	—	—
No. 50, p. 403 ..	Cromer	45	12th	36	16th	42·1	37·3	39·8	+ 1·3	0	17	5	0·90	—	0·4	—	1	—
No. 50, p. 403 ..	Rhyl	—	—	—	—	—	—	—	—	—	—	—	—	—	2·3	—	4	—
No. 51, p. 411 ..	Cromer	50	23, 24	25	21st	42·7	32·9	38·0	+ 0·4	2	34	6	1·15	—	21·5	—	42	—
No. 51, p. 411 ..	Sheffield	—	—	—	—	—	—	—	—	—	—	—	—	—	13·7	—	27	—
No. 51, p. 411 ..	Rhyl	—	—	—	—	—	—	—	—	—	—	—	—	—	21·0	—	41	—
No. 51, p. 411 ..	Tenby	—	—	—	—	—	—	—	—	—	—	—	—	—	21·2	+10·9	40	+21
No. 52, p. 419 ..	Marchmont ⚓	55	1st	30	27, 30	46·8	33·8	40·6	+ 3·5	13	34	6	0·64	-0·12	3·3	-3·6	7	-8
No. 52, p. 419 ..	Hereford .. 🚂	56	26th	28	30th	50·9	36·6	44·0	+ 5·2	37	15	—	—	—	—	—	—	—
Station Values, Corrections.																		
No. 45, p. 363 ..	Cahir .. 🚂	—	—	—	—	48·8	—	40·0	- 6·3	19	43	—	—	—	—	—	—	—
No. 48, p. 387 ..	Cheadle .. 🚂	—	—	—	—	43·0	—	39·5	- 0·7	3	—	—	—	—	—	—	—	—
No. 48, p. 387 ..	Aspatria	—	—	—	—	44·6	—	39·9	- 1·3	7	—	—	—	—	—	—	—	—
No. 49, p. 395 ..	Cheadle .. 🚂	—	—	—	—	—	31·0	36·0	- 3·1	—	42	—	—	—	—	—	—	—
No. 49, p. 395 ..	Laudale	—	—	—	—	—	—	—	—	—	—	4	4·01	+1·90	—	—	—	—
No. 49, p. 395 ..	Cahir .. 🚂	—	—	—	7th	—	34·1	39·8	- 3·4	—	32	—	—	—	—	—	—	—
No. 50, p. 403 .	Wick	—	—	—	—	—	—	—	—	—	—	—	0·39	-0·28	—	—	—	—
No. 50, p. 403 ..	Strathpeffer ..	—	—	—	—	—	27·2	31·6	- 6·1	—	73	—	—	—	—	—	—	—
No. 50, p. 403 ..	Wisley	—	—	—	—	—	—	—	—	—	—	—	—	—	0·7	—	1	—
No. 50, p. 403 ..	Blackpool ..	—	—	—	—	—	—	—	—	—	—	—	0·20	-0·50	—	—	—	—
No. 50, p. 403 ..	Llangammarch Wells.	—	—	—	16, 17	—	33·4	36·5	- 2·5	0	39	—	—	—	—	—	—	—
No. 50, p. 403 ..	Cahir .. 🚂	—	—	—	—	42·7	—	40·3	- 2·7	2	17	—	—	—	—	—	—	—
No. 51, p. 411 ..	Sumburgh Head	—	—	—	—	—	—	—	—	—	—	—	1·19	+0·15	—	—	—	—
No. 51, p. 411 ..	Laudale	—	—	—	—	—	—	—	—	—	—	—	2·09	-0·12	—	—	—	—
No. 51, p. 411 ..	Malin Head ..	—	—	28	19th	—	33·3	37·6	- 4·3	—	31	—	—	—	—	—	—	—
No. 51, p. 411 ..	Brighton	—	—	—	—	—	—	—	—	—	—	—	—	—	—	+10·3	—	—
No. 52, p. 419 ..	Strathpeffer ..	—	—	—	27, 29, 30	—	32·9	40·1	+ 3·0	—	37	—	—	—	—	—	—	—
No. 52, p. 419 ..	Rounton .. 🚂	—	—	—	—	48·0	—	41·8	+ 4·3	17	30	—	—	—	—	—	—	—
No. 52, p. 419 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	—	6·5	+0·8	13	+2
No. 52, p. 419 ..	Cheadle .. 🚂	—	—	—	—	47·3	35·7	41·7	+ 4·4	15	27	—	—	—	—	—	—	—
No. 52, p. 419 ..	Llangammarch Wells.	—	—	—	29, 30	—	36·7	42 5	+ 4·5	—	15	—	—	—	—	—	—	—
No. 52, p. 419 ..	Cahir .. 🚂	—	—	—	—	—	40·0	45·6	+ 3·4	34	6	—	—	—	—	—	—	—
No. 52, p. 419 ..	Scilly	—	—	—	—	—	—	—	—	—	—	—	0·43	-0·45	—	—	—	—

		Grass Minima. No. of Days.	Grass Minima. Lowest Reading.	Mean Earth Temperature. At 1 foot.	Mean Earth Temperature. At 4 feet.
Station Values, Additions.					
No. 50, p. 404 ..	Crathes	3	19	1 ft.	4 ft.
No. 50, p. 404 ..	Lincoln	—	—	36·5	38·9
No. 51, p. 412 ..	Bath	—	—	39·5	42·8
No. 52, p. 420 ..	Marchmont ⚓	—	—	39·4	44·5
		4	29	35·3	—
Station Values, Corrections.					
No. 51, p. 412 ..	Portsmouth ..	5	—	—	—
No. 52, p. 420 ..	Norwich	2	—	—	—
No. 52, p. 420 ..	Buxton	4	25	—	—

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.
Corrections and Additions for previous months have been published on pp. 60 (Jan.), 92 (Feb.), 124 (Mar.), 164 (April), 196 (May), 228 (June), 268 (July), 308 (Aug.), 340 (Sep.), 372 (Oct.), 404 (Nov.), of the Weekly Weather Report for 1909. For corrections to the Monthly Weather Report, see pp. vi and cxxxvi.

(15708—24.) Wt. 103–466. 450. 3/10. D & S.

Additional Observations in the Upper Air, 1909.

Temperature (degrees A.), Humidity (per cent.), and Wind Direction (in degrees, E.=90°, S.=180°, W.=270°, N.=360°), and Velocity (metres per second).

No.	Date of Observations.	Station, and its Height above M.S.L.		Ground Level.	At 100 metres above ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At greatest Height.	Remarks.
	1909.										Metres.	
1	Dec. 28th, 3.30 p.m. to 4.12 p.m.	Howard Estate, Glossop. 335 m.	Temp. ..	278·7°	278·2°	277·7°	—	—	—	—	275°	Dull and wet; fresh to strong breeze. Clouds, Nb.
			Humidity	100%	100%	100%	—	—	—	—	100%	930
			Wind ..	270°, 9	—, 13	—, 16	—	—	—	—	—, 17	
2	Dec. 30th, 5.30 p.m. to 7.2 p.m.	Do.	Temp. ..	277·6°	276·8°	276·3°	**273°**	—	—	—	**270°**	Overcast; light to gentle breezes, increasing later. Clouds, Cu.–Nb. and Nb.
			Humidity	94%	96%	96%	99%	—	—	—	97%	1,450
			Wind ..	190°, 7	198°, —	202°, —	227°, —	—	—	—	250°, —	
3	Dec. 31st, 2.30 p.m. to 3.20 p.m.	Do.	Temp. ..	277·6°	276·8°	276·3°	**273°**	—	—	—	**272·3°**	Overcast; some rain; strong breeze. Clouds, Nb.
			Humidity	97%	98%	99%	100%	—	—	—	100%	1,100
			Wind ..	292°, 11	295°, 14	297°, 16	304°, 19	—	—	—	306°, 19	

Apparatus used in the Kite Ascents.

No. of Ascent.	1.	2.	3.
No. of Kites	1	1	1
Area of Surface (sq. m.)	7·6	7·6	7·6

Results of Registering Balloon Ascents from Manchester.

Date and Hour.	1. July 2nd, 10.17 p.m.				2. October 6th, 6.2 p.m.			3. October 8th, 6.23 p.m.				4. November 4th, 7.23 p.m.				Date and Hour.
Height.	Pressure.		Temperature.		Pressure.		Temperature.	Pressure.		Temperature.		Pressure.		Temperature.		Height.
			A°	A°						A°	A°			A°	A°	
km.	mm.	mgd.	Ascent.	Descent.	mm.	mgd.	A°	mm.	mgd.	Ascent.	Descent.	mm.	mgd.	285		km.
Ground	762	1·016	284	283	755	1·006	285	758	1·010	284·8	—	763	1·017			Ground.
0·5	718	·958	280	282	710	·947	280	717	·956	278	276	720	·960	277	276	0·5
1·0	676	·901	275	279	670	·893	275	675	·900	274	274	686	·907	274		1·0
1·5	632	·843	274	275	630	·840	**272**	640	·853	**273**	276	640	·853	**268**	**272**	1·5
2·0	593	·791	**272**	**272**	589	·786	**268**	597	·796	**269**	**271**	600	·800	**270**	**273**	2·0
2·5	556	·741	**270**	**270**	556	·741	**267**	560	·747	**269**	**271**	561	·748	**270**	**272**	2·5
3·0	522	·696	**267**	**267**	523	·697	**267**	526	·700	**267**	**267**	527	·702	**268**	**269**	3·0
3·5	490	·653	**265**	**265**	492	·656	**264**	494	·658	**264**	**264**	493	·657	**264**		3·5
4·0	458	·611	**262**	**262**	462	·616	**259**	465	·620	**261**	**260**	463	·617	**262**		4·0
4·5	427	·569	**259**	**259**	434	·579	**256**	435	·580	**260**	**257**	432	·576	**261**		4·5
5·0	400	·533	**256**	**256**	407	·543	**254**	408	·544	**259**	**255**	403	·536	**259**		5·0
5·5	372	·496	**253**	**253**	383	·511	**250**	380	·507	**255**	**251**	379	·506	**257**		5·5
6·0	350	·467	**250**	**250**	358	·476	**246**	353	·471	**249**	**247**	353	·471	**252**		6·0
6·5	326	·435	**248**	**246**	334	·445	**242**	330	·440	**244**	**241**	329	·439	**248**		6·5
7·0	305	·407	**245**	**242**	311	·414	**238**	308	·410	**240**	**237**	308	·410	**243**		7·0
7·5	282	·376	**242**	**238**	290	·387	**235**	285	·380	**236**	**233**	287	·383	**240**		7·5
8·0	263	·351	**239**	**235**	269	·359	**233**	265	·354	**233**	**231**	266	·354	**238**		8·0
8·5	245	·327	**237**	**232**	250	·333	**230**	250	·333	**231**	**227**	248	·329	**235**		8·5
9·0	228	·304	**232·5**	**229**	235	·313	**226**	232	·310	**228**	**225**	231	·308	**232**		9·0
9·5	212	·283	**226**	**228**	217	·289	**224**	214	·284	**226**	**223**	217	·287	**230**		9·5
10·0	196	·261	**225**	**223**	202	·270	**222**	198	·264	**224**	**221**	203	·271	**227**		10·0
11·0	167	·222	**218**	**217**	173	·231	**220**	170	·227	**224**	**221**	174	·233	**221**		11·0
12·0	143	·191	**217·5**	**216**	149	·199	**221**	146	·195	**226**	**224**	149	·199	**215**		12·0
13·0	122	·163	**217**	**214·5**	129	·172	**221**	127	·169	**224**	**224**	128	·170	**212**		13·0
14·0	105	·140	**215·5**	**215·5**	110	·146	**221**	—	—	—	—	112	·149	**214**		14·0
15·0	—	—	—	—	—	—	—	—	—	—	—	99	·132	**216**		15·0
16·0	—	—	—	—	—	—	—	—	—	—	—	98	·130	**216**		16·0
17·0	—	—	—	—	—	—	—	—	—	—	—	96	·128	**215**		17·0

1. Balloon fell at Flaxton, near York; distant, 95 km.: direction, 55°; mean temperature gradient (ground to 8 km.), 0·60° per 100 metres. Two instruments—one fixed inside balloon. Trace of outside instrument illegible. Ascent and descent readings of inside instrument are given. For particulars of an ascent made on this plan during the day *see* ascent No. 1, on p. 380, *See also* "Nature," Vol. 82, p. 366.

2. Balloon fell at Kirkburn, near Driffield; distant, 125 km.; direction, 68°; mean temperature gradient (ground to 8 km.), 0·64° per 100 metres.

3. Balloon fell at Duddington, near Stamford, Nottingham; distant, 150 km.; direction, 125°; mean temperature gradient (ground to 8 km.), 0·64° C. per 100 metres.

4. Balloon fell at Rawcliffe, Yorks, S.W.: distant, 90 km.; direction, 80°; mean temperature gradient (ground to 8 km.), 0·56° C. per 100 metres. Double trace from 0 to 3·5 km.; ascent and descent traces cross each other at 1 km.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* } No. 1. FIRST WEEK, ENDING SATURDAY, JANUARY 9TH, 1909. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—General Remarks.

Weather.—In the most western and northern districts rain was rather frequent, but in the east and south the weather, although changable, included several fine intervals of considerable duration. Aurora was observed at Aberdeen on Sunday night. Thunderstorms were experienced in some Scottish localities on Wednesday, and in several parts of Great Britain on Thursday. At the end of the week, showers of sleet, snow and hail were common in Scotland and the east of England.

Temperature was above the average, the excess being greatest (more than 4°) in the north and east of Scotland and the north of Ireland. At most places the maxima for the week were recorded on the 3rd, and ranged from 50° in England E. to 56° in Scotland N. The lowest of the minima were generally registered on the 8th or 9th, when they ranged from 25° in Scotland E. and England E. to 30° in Ireland, and to 33° in the English Channel. The lowest grass temperatures reported were 18° or 19° at West Linton, Crathes and Buxton, 20° at Hereford, and 21° at Greenwich and at some places in England N.W.

Mean Temperature of the Sea—Compared with the corresponding week of last year, the temperature readings were higher at almost every station, the difference exceeding 4° on many parts of the western and south-western coasts. The actual figures for the week ranged from 50°2 at Plymouth, and about 49° at Newquay, Salcombe, Lamlash and Seafield, to 39°5 at Margate, and 36°7 at Aberdeen.

Rainfall was more than the average in Scotland N., but less elsewhere, the deficit being large in the south-east and south-west of England, as well as in Ireland S. and the English Channel.

Bright Sunshine exceeded the average in Scotland and at most places in the eastern half of England, but only just equalled it in the Midland Counties, and was below it in the western districts of England and in Ireland. The percentage of the possible duration ranged from 26° in Scotland E., and 23° in the English Channel, to 13° in Ireland S., 12° in Scotland N., and 11° in England N.W.

Barometer and Wind.—Some small secondary depressions passed across England and Ireland, but generally the cyclonic systems moved in a track far to the northward of these Islands, while the barometer in the south of this country continued rather high. The main current of wind was consequently South-Westerly to Westerly, but towards the end of the period, where a large depression travelled south-eastwards over Scandinavia, the wind veered to N.W. or N. for a time. The force of a whole gale was experienced at Wick during the night of Thursday, and gales or high winds prevailed either during the evening or at night on many parts of the coast, the gale continuing in several places throughout Friday.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 12.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1 Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Unusual	Unusual	Moderate	Unusual	Moderate	Moderate
	Rainfall ...	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Moderate	Moderate	Light	Moderate	Light	Light
	Sunshine ...	Abundant	Abundant	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Moderate	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1908–9. 6 weeks from Nov. 29th, 1908.	Warmth ...	3 * 0	3 * 0	2 * 2	2 * 1	1 * 1	2 * 1	3 * 0	3 * 1	3 * 1	4 * 0	3 * 0	3 * 0
	Rainfall ...	1 * 1	0 * 3	0 * 2	2 * 3	1 * 2	3 * 3	2 * 0	0 * 2	2 * 3	1 * 1	2 * 2	3 * 3
	Sunshine ...	3 * 2	3 * 1	0 * 2	0 * 4	1 * 4	0 * 3	3 * 2	3 * 1	1 * 2	3 * 2	0 * 3	1 * 2

PAST SEASONS.

WINTER, 1907–8. Dec. 1st–Feb. 29th. 13 weeks.	Warmth ...	4 * 2	4 * 1	3 * 4	4 * 3	4 * 3	5 * 4	5 * 3	4 * 4	3 * 3	5 * 3	5 * 3	4 * 2
	Rainfall ...	4 * 4	6 * 5	4 * 6	5 * 5	4 * 8	3 * 7	7 * 3	8 * 4	3 * 4	6 * 3	2 * 3	4 * 5
	Sunshine ...	4 * 3	5 * 1	3 * 2	5 * 5	3 * 4	6 * 2	1 * 3	6 * 2	3 * 3	3 * 4	3 * 3	2 * 3
SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to previous Volumes of the Report.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIRST WEEK—January 3rd to 9th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	56	28	46·1	37·5	42·0	+ 4·2	11	+ 5	13	− 24	6	+ 1	1·38	+0·29	6	+ 1	12	+ 2
Eastern																		
1. SCOTLAND, EAST	58	25	45·4	36·1	41·0	+ 4·6	10	+ 5	25	− 19	4	0	0·51	−0·09	12	+ 6	26	+12
2. ENGLAND, N.E.	53	28	44·8	36·6	40·8	+ 3·0	8	+ 2	22	− 15	3	− 1	0·29	−0·13	11	+ 3	21	+ 7
3. ENGLAND, EAST	50	25	44·0	35·6	40·0	+ 2·7	6	− 2	25	− 17	4	0	0·31	−0·14	10	+ 1	20	+ 2
4. MIDLAND COUNTIES	54	29	44·7	36·1	40·6	+ 3·4	8	− 1	24	− 18	4	0	0·24	−0·31	8	0	16	0
5. ENGLAND, S.E.	51	28	44·7	36·9	40·9	+ 1·8	8	− 4	20	− 12	3	− 1	0·12	−0·42	10	+ 1	19	+ 1
Western																		
6. SCOTLAND, WEST	53	28	46·0	38·5	42·4	+ 3·7	18	+ 10	10	− 21	5	0	0·93	−0·16	10	+ 3	20	+ 7
7. ENGLAND, N.W.	55	29	45·5	38·9	42·4	+ 3·3	16	+ 6	9	− 21	4	0	0·44	−0·24	6	− 1	11	− 2
8. ENGLAND, S.W.	51	26	46·6	39·4	43·1	+ 2·1	19	+ 3	7	− 16	5	0	0·30	−0·61	8	− 3	14	− 5
9. IRELAND, NORTH	52	30	47·9	40·6	44·4	+ 4·2	23	+ 11	4	− 21	5	0	0·59	−0·22	8	− 1	16	− 1
10. IRELAND, SOUTH	55	30	48·7	41·5	45·2	+ 3·2	25	+ 5	1	− 18	5	0	0·46	−0·59	7	− 4	13	− 7
11. ENGLISH CHANNEL	54	33	49·5	42·7	46·2	+ 1·7	29	+ 3	0	− 9	4	− 1	0·27	−0·53	13	− 1	23	− 1

THE SEASON (**Winter**). Aggregates, &c., for the Period of 6 Weeks, November 29th, 1908, to January 9th, 1909.

0. SCOTLAND, NORTH	56	21	*	*	*	*	82	+36	109	− 87	34	+ 3	8·37	+0·89	26	− 1	10	0
Eastern																		
1. SCOTLAND, EAST	58	16	*	*	*	*	66	+26	193	− 51	22	− 3	2·52	−1·32	50	+ 9	18	+ 3
2. ENGLAND, N.E.	55	11	*	*	*	*	41	− 6	197	− 2	22	0	1·79	−1·07	39	−10	13	− 3
3. ENGLAND, EAST	55	7	*	*	*	*	52	− 3	161	− 66	24	0	2·26	−0·38	30	−27	9	− 9
4. MIDLAND COUNTIES	56	3	*	*	*	*	63	+ 3	180	− 51	26	+ 3	2·27	−0·95	32	−17	10	− 5
5. ENGLAND, S.E.	55	3	*	*	*	*	92	+ 5	122	− 43	25	+ 1	3·17	−0·22	44	−16	14	− 5
Western																		
6. SCOTLAND, WEST	56	22	*	*	*	*	86	+22	113	− 45	31	+ 2	6·60	−0·42	39	− 1	13	0
7. ENGLAND, N.W.	56	16	*	*	*	*	78	+ 9	120	− 39	27	+ 2	3·43	−0·94	48	+ 6	16	+ 2
8. ENGLAND, SW	57	15	*	*	*	*	134	+22	50	− 66	31	+ 3	4·80	−1·09	51	−10	16	− 3
9. IRELAND, NORTH	54	24	*	*	*	*	129	+50	79	− 58	31	+ 1	4·94	−0·11	53	+ 2	17	+ 1
10. IRELAND, SOUTH	58	26	*	*	*	*	190	+59	50	− 54	33	+ 4	5·01	−1·21	50	−13	16	− 4
11. ENGLISH CHANNEL	57	27	*	*	*	*	229	+48	9	− 28	28	− 2	4·82	−0·28	76	− 2	23	− 1

THE YEAR.—Aggregates, &c., for the Period of 1 Week, January 3rd to 9th, 1909.

0. SCOTLAND, NORTH	56	28	*	*	*	*	11	+ 5	13	− 24	6	+ 1	1·38	+0·29	6	+ 1	12	+ 2
Eastern																		
1. SCOTLAND, EAST	58	25	*	*	*	*	10	+ 5	25	− 19	4	0	0·51	−0·09	12	+ 6	26	+12
2. ENGLAND, N.E.	53	28	*	*	*	*	8	+ 2	22	− 15	3	− 1	0·29	−0·13	11	+ 3	21	+ 7
3. ENGLAND, EAST	50	25	*	*	*	*	6	− 2	25	− 17	4	0	0·31	−0·14	10	+ 1	20	+ 2
4. MIDLAND COUNTIES	54	29	*	*	*	*	8	− 1	24	− 18	4	0	0·24	−0·31	8	0	16	0
5. ENGLAND, S.E.	51	28	*	*	*	*	8	− 4	20	− 12	3	− 1	0·12	−0·42	10	+ 1	19	+ 1
Western																		
6. SCOTLAND, WEST	53	28	*	*	*	*	18	+ 10	10	− 21	5	0	0·93	−0·16	10	+ 3	20	+ 7
7. ENGLAND, N.W.	55	29	*	*	*	*	16	+ 6	9	− 21	4	0	0·44	−0·24	6	− 1	11	− 2
8. ENGLAND, S.W.	51	26	*	*	*	*	19	+ 3	7	− 16	5	0	0·30	−0·61	8	− 3	14	− 5
9 IRELAND, NORTH	52	30	*	*	*	*	23	+ 11	4	− 21	5	0	0·59	−0·22	8	− 1	16	− 1
10. IRELAND, SOUTH	55	30	*	*	*	*	25	+ 5	1	− 18	5	0	0·46	−0·59	7	− 4	13	− 7
11. ENGLISH CHANNEL	54	33	*	*	*	*	29	+ 3	0	− 9	4	− 1	0·27	−0·53	13	− 1	23	− 1

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation, (generally 7 a.m. or 9 a.m.) at Stations marked *a* and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked Ⱡ is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. a, Islands.	*p Balta Sound* S	*50*	*3rd*	*30*	*8th*	*45·6*	*38·5*	*42·2*	—	*16*	*10*	*7*	*0·85*	—	*1·4*	—	*4*	—	*Balta Sound.*
	a Sumburgh Head ..	50	4th	32	8th	45·4	39·4	42·5	+ 2·9	14	7	7	1·05	+ 0·06	7·5	+ 1·6	17	+ 4	Deerness.
	a Stornoway	52	3rd, 4th	33	8th	47·0	37·9	42·6	+ 3·3	21	11	7	1·29	+ 0·02	4·4	− 1·6	10	− 4	Stornoway.
	a Castlebay, Barra Isd.	*52*	*3rd*	*35*	*8th*	*49·1*	*41·6*	*45·5*	*+ 3·8*	*26*	*1*	*7*	*0·64*	—	*4·1*	—	*9*	—	*Castlebay.*
b, Mainland.	a Wick	56	4th	28	8th	46·9	34·3	40·9	+ 2·5	14	32	4	0·82	+ 0·22	*	*	*	*	* *
	p Strathpeffer.. ..	52	3rd, 4th	32	7th	46·9	37·6	42·4	+ 5·5	21	12	5	0·67	− 0·10	8·7	+ 1·7	19	+ 4	Strathpeffer.
	p Glencarron .. 𝔖	49	3rd, 4th	33	7th	45·4	38·5	42·1	+ 5·3	15	10	7	2·51	+ 0·17	*	*	*	*	* *
	p Fort Augustus 𝔖	50	3rd	29	6th	45·3	36·6	41·1	+ 3·3	9	22	6	0·96	− 0·32	1·9	− 1·0	4	− 2	Fort Augustus.
	p Fort William 𝔖	50	4th	32	8th	46·1	38·0	42·2	+ 2·7	18	11	7	2·39	+ 0·21	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle 𝔖	55	4th	31	5th	46·9	35·8	41·6	+ 3·2	14	27	4	0·32	− 0·22	*12·3*	—	*27*	—	*Gordon Castle.*
	a Nairn	52	4th	31	8th	45·4	36·9	41·3	+ 3·9	10	21	5	0·53	+ 0·08	12·3	—	27	—	Nairn.
	a Aberdeen	51	4th	29	5th	43·4	32·3	38·1	+ 0·3	4	37	5	0·44	− 0·13	14·2	+ 4·4	31	+10	Aberdeen.
	a Balmoral .. 𝔖	58?	5th	28	6th	49·1?	34·3	42·0?	+ 7·5	20	22	3	0·31	− 0·39	10·9	—	23	—	Crathes S.
	p Crieff .. .. 𝔖	50	3rd	31	8th	44·8	37·4	41·3	+ 4·0	8	19	5	0·56	− 0·36	12·9	—	27	—	Balruddery
	a Leith	52	3rd	33	8th	46·6	41·9	44·3	+ 5·0	17	0	4	0·59	+ 0·20	9·9	+ 4·1	21	+ 9	Edinburgh.
	a West Linton.. S	47	4th	25	8th	41·7	34·9	38·4	+ 1·9	0	25	5	0·89	—	*9·6*	—	*20*	—	*West Linton.*
	p Marchmont .. 𝔖	49	4th	29	8th	45·4	35·6	40·7	+ 4·0	10	26	4	0·41	− 0·13	13·0	+ 4·1	27	+ 8	Marchmont.
2. ENGLAND, N.E. a, North.	a Alnwick Castle ..	53	3rd	32	8th	46·0	38·1	42·2	+ 3·9	13	11	4	0·50	− 0·07	14·6	—	30	—	Cockle Park.
	a Shields	52	4th	30	8th	46·3	36·7	41·7	+ 2·8	12	23	3	0·34	− 0·06	*9·5*	*+ 4·1*	*19*	*+ 8*	*Newcastle.*
	p Durham	51	3rd	31	9th	45·2	35·8	40·7	+ 3·3	9	25	3	0·18	− 0·21	16·7	+ 7·1	33	+14	Durham.
	p Rounton .. 𝔐	49	3rd, 4th	28	9th	44·1	34·7	39·6	+ 2·1	6	28	4	0·10	− 0·30	*	*	*	*	* *
	p Scarborough.. M	50	4th	33	8th	44·9	37·4	41·3	+ 2·4	8	19	4	0·18	− 0·30	8·7	—	17	—	Scarborough.
	p York	50	3rd	32	8th	45·0	36·5	40·9	+ 2·7	8	22	4	0·14	− 0·26	? 4·6	− 1·6	9	− 3	York.
b, South.	a Spurn Head	46	3rd, 4th	33	9th	43·4	37·6	40·6	+ 1·5	4	17	3	0·64	+ 0·29	*	*	*	*	* *
	a Lincoln	49	3rd	30	7th, 8th	44·2	34·9	39·7	+ 2·3	6	27	3	0·31	− 0·09	10·0	—	19	—	Skegness.
	a Fulbeck	49	3rd	31	8th	43·8	37·3	40·7	~~+ 3·4~~	~~5~~	19	2	0·26	− 0·14	10·1	—	19	—	Rauceby.
															10·0	—	*19*	—	*Lowestoft.*
3. ENGLAND, E. a, North.	p Cromer	50	9th	25	8th	46·2	34·8	40·7	+ 3·4	12	30	4	0·19	—	8·6	—	17	—	Cromer.
	p Hillington .. 𝔐	46	3rd	31	6, 8, 9th	43·1	34·1	38·8	+ 1·5	3	30	5	0·62	+ 0·14	7·2	− 2·8	14	− 5	Hillington.
	a Yarmouth	50	4th	31	9th	43·7	35·1	39·6	+ 1·5	5	27	3	0·30	− 0·13	7·8	—	15	—	Yarmouth.
	a Norwich	47	4th	32	8th	43·4	36·1	39·9	+ 2·0	4	23	6	0·46	—	*	*	*	*	* *
	p Geldeston	50	4th	30	9th	44·3	34·4	39·6	+ 1·1	6	30	3	0·20	− 0·20	11·2	− 0·2	21	0	Geldeston.
b, South.	p Cambridge	48	3rd	33	8th	44·4	35·5	40·1	+ 2·1	7	25	5	0·37	+ 0·05	14·0	+ 3·7	26	+ 7	Cambridge.
	a Felixstowe	*45*	*3rd*	*32*	*8th*	*42·1*	*35·7*	*39·0*	*+ 0·1*	*0*	*23*	*4*	*0·28*	—	*14·2*	—	*27*	—	*Felixstowe.*
	a Clacton-on-Sea ..	46	3rd	32	9th	42·1	36·4	39·4	+ 0·7	0	21	3	0·20	—	12·7	—	24	—	Clacton.
	a Rothamsted ..	49	3rd	32	9th	44·4	36·0	40·4	+ 2·6	7	24	3	0·26	− 0·21	11·5	+ 1·2	21	+ 2	Rothamsted.
	a Shoeburyness ..	*49*	*3rd*	*33*	*8th*	*42·9*	*36·6*	*39·9*	*+ 0·9*	*3*	*21*	*4*	*0·19*	*− 0·11*	*15·0*	—	*28*	—	*Southend.*
	p Tottenham	48	3rd	34	9th	44·6	38·0	41·4	+ 2·5	7	17	3	0·23	—	10·1	—	19	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	a Harrogate	48	3, 4, 5th	29	9th	43·8	36·0	40·1	+ 2·9	5	24	5	0·22	− 0·33	7·5	—	15	—	Harrogate.
	a Bawtry	54	3rd	30	6th	45·7	36·0	41·0	+ 3·2	10	25	3	0·16	− 0·23	7·0	− 0·5	14	− 1	Worksop.
	p Buxton .. M	*49*	*3rd*	*26*	*9th*	*42·5*	*35·2*	*39·0*	*+ 3·3*	*1*	*25*	*3*	*0·65*	*− 0·48*	*7·6*	—	*15*	—	*Buxton.*
	a Nottingham ..	50	3rd	32	6th	45·0	36·3	40·8	+ 2·8	8	23	4	0·19	− 0·24	6·8	—	13	—	Nottingham.
	p Birmingham, Edgbsn	49	3rd	32	9th	44·1	36·9	40·6	+ 2·7	6	20	2	0·21	− 0·27	8·7	—	16	—	Birmingham.
	a Raunds .. 𝔐	51	3rd	31	9th	45·2	36·2	40·9	+ 3·4	9	24	4	0·36	—	*	*	*	*	* *
	a Oxford	48	3rd	31	9th	43·9	37·7	40·9	+ 2·0	5	17	2	0·11	− 0·31	10·3	+ 0·1	19	0	Oxford.
b, West.	a Cheadle .. 𝔐	47	3rd	29	9th	42·3	35·2	38·9	+ 1·8	1	25	5	0·63	+ 0·04	7·2	—	14	—	Sheffield.
	p Shrewsbury	52	3rd	31	9th	47·4	34·3	41·1	+ 2·0	15	32	2	0·43	—	*	*	*	*	* *
	a Hereford .. 𝔐	49	3rd	30	9th	44·8	36·6	40·9	+ 2·4	8	22	5	0·14	− 0·36	*	*	*	*	* *
	a Cirencester	48	3rd	29	9th	44·1	34·8	39·6	+ 1·7	6	28	3	0·05	− 0·51	8·5	− 1·7	16	− 3	Cirencester.
	a Bath	50	3rd	30	9th	45·9	37·0	41·6	+ 1·8	11	21	4	0·13	− 0·45	10·5	—	19	—	Bath.
															4·7	—	*9*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	48	3rd	33	5th	45·2	37·4	41·5	+ 2·3	9	20	3	0·24	− 0·15	10·9	+ 2·0	20	+ 4	Kew.
	a Marlborough ..	48	3rd	28	9th	44·7	34·8	40·0	+ 2·2	8	29	2	0·09	− 0·51	10·1	+ 1·4	19	+ 3	Marlborough.
	a Margate	47	3rd	34	6th	42·9	37·5	40·3	+ 0·6	3	17	2	0·19	− 0·22	8·9	− 1·6	17	− 3	Margate.
	a Wisley, Surrey ..	48	3rd	33	5th	44·0	37·2	40·7	+ 1·3	6	19	2	0·16	—	11·2	—	21	—	Wisley.
	a Swarraton .. 𝔐	47	3rd, 6th	29	5th	43·8	35·6	39·9	+ 1·9	5	25	4	0·14	− 0·46	11·7	—	21	—	Worthing.
	a Tunbridge Wells 𝔐	47	3rd	33	5, 6, 9th	41·8	35·6	38·8	+ 0·7	0	22	4	0·13	− 0·47	7·0	− 3·0	13	− 6	Tunbridge Wells.
	a Dungeness	48	3rd	32	8th, 9th	44·3	35·4	40·0	0·0	5	26	3	0·09	− 0·34	8·2	—	15	—	Littlestone.
	p Hastings	48	3rd	35	5, 6, 7, 8, 9	45·0	37·0	41·2	+ 1·1	8	21	3	0·07	− 0·49	*8·9*	*− 4·2*	*16*	*− 8*	*Hastings.*
	p Southampton ..	51	6th	32	9th	46·9	38·3	42·8	+ 2·8	21	10	3	0·08	− 0·54	13·0	+ 2·0	24	+ 4	Southampton.
	a Ventnor	50	6th	34	9th	48·2	39·9	44·2	+ 1·7	24	6	1	0·02	− 0·57	13·3	+ 1·4	24	+ 3	Ventnor.
															9·7	− 2·5	18	− 5	Eastbourne.
LONDON	*a Westminster* ..	*48*	*3rd*	*36*	*6, 8, 9th*	*44·6*	*39·0*	*41·9*	*+ 2·7*	*7*	*13*	*4*	*0·12*	*− 0·27*	*6·9*	*+ 3·4*	*13*	*+ 6*	*Westminster.*
	a Greenwich	*47*	*3rd*	*33*	*5th, 6th*	*44·0*	*37·2*	*40·7*	*+ 0·8*	*6*	*19*	*3*	*0·16*	*− 0·23*	*8·1*	*− 0·2*	*15*	*0*	*Greenwich.*
6. a, SCOTLAND. W. ..	p Laudale	53	3rd	32	6th	47·9	38·4	43·3	+ 2·8	24	10	6	1·62	− 0·43	*	*	*	*	* *
	a Poltalloch .. 𝔖	50	3, 4, 9th	32	6th	47·3	36·9	42·3	+ 2·7	24	14	5	1·15	+ 0·01	*	*	*	*	* *
	p Glasgow	49	3rd, 4th	33	8th	45·5	39·4	42·6	+ 3·8	15	7	4	0·76	− 0·04	8·6	+ 4·3	18	+ 9	Glasgow.
	p Rothesay .. 𝔖	51	4th	35	6th, 8th	47·3	40·0	43·8	+ 3·9	21	6	5	0·87	− 0·17	*	*	*	*	* *
	a Kilmarnock	49	3rd	31	8th	46·7	38·2	42·6	+ 2·6	20	11	5	0·91	—	*10·1*	—	*21*	—	*Kilmarnock.*
	a Colmonell .. 𝔖	47	3rd	31	9th	42·2	38·6	40·5	+ 0·1	1	13	4	0·96	− 0·11	*	*	*	*	* *
	p Dumfries .. 𝔖	48	3rd, 4th	32	8th, 9th	45·4	38·5	42·1	+ 3·5	15	10	4	0·50	− 0·33	*	*	*	*	* *
	p Cally Gatehouse 𝔖	47	3rd	28	9th	44·5	36·1	40·5	+ 2·0	7	24	5	0·97	− 0·11	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	50	3rd	35	8th, 9th	46·8	40·5	43·8	+ 2·6	19	4	4	0·60	− 0·30	11·3	+ 1·1	22	+ 2	Douglas.
															6·2	—	12	—	Hoylake.
7. a, ENGLAND, N.W...	p Aspatria	48	3rd, 4th	29	9th	44·6	37·5	41·2	+ 2·9	7	19	4	0·40	− 0·30	7·6	—	15	—	Aspatria.
	p Newton Rigg ..	50	3rd	29	9th	44·2	35·7	40·1	+ 3·1	6	25	4	0·35	− 0·43	8·0	− 0·2	16	0	Newton Rigg.
	p Stonyhurst	48	3rd	30	9th	43·7	37·3	40·6	+ 2·3	5	18	5	0·81	− 0·16	4·4	− 2·3	9	− 4	Stonyhurst.
	p Blackpool .. M	48	3rd, 4th	34	9th	44·8	39·7	42·4	+ 3·3	12	6	5	0·37	− 0·26	8·5	+ 1·2	16	+ 2	Blackpool.
	p M'nch'ster, Prestwich	49	3rd	29	9th	43·7	36·5	40·2	+ 1·8	5	21	4	0·76	0·00	*5·5*	*+ 1·4*	*11*	*+ 3*	*Prestwich.*
	a Liverpool (Bidston)	52	3rd	37	8th, 9th	46·0	40·4	43·3	+ 3·1	16	4	5	0·44	− 0·06	*8·2*	—	*16*	—	*Liverpool.*
	a Hawarden Bridge ..	55	3rd	36	9th	47·4	39·6	43·7	+ 3·0	22	7	4	0·35	− 0·07	*7·7*	*− 0·1*	*15*	*0*	*Southport.*
																—		—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	50	3rd	38	8th, 9th	46·1	41·2	43·8	+ 2·0	16	2	4	0·30	− 0·30	2·8	− 6·8	5	−13	Llandudno.
	a Holyhead	51	3rd	40	7, 8, 9th	47·4	42·3	45·0	+ 2·7	21	0	5	0·18	− 0·56	5·8	—	11	—	Aberdovey.
	p Bettws-y-Coed ..	52	3rd	29	9th	47·4	38·6	43·2	+ 1·9	23	10	4	0·48	—	2·1	—	4	—	Bettws-y-Coed.
															3·2	—	6	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	49	3rd	26	9th	45·1	35·5	40·5	+ 2·9	9	26	5	0·54	—	3·8	—	7	—	Llangammarch Wells.
	a Pembroke	51	3rd	36	9th	49·0	42·4	45·8	+ 2·5	27	0	5	0·42	− 0·39	5·4	− 5·5	10	−10	Pembroke.
	a Cardiff	49	3rd	31	9th	45·9	37·9	42·1	+ 2·5	18	11	4	0·09	− 0·81	*6·3*	—	*12*	—	*Cardiff.*
																			Tenby.
b, ENGLAND, S.W. ..	a Clifton	49	3rd	32	9th	46·4	38·7	42·7	+ 2·2	19	9	4	0·09	− 0·59	*8·9*	—	*17*	—	*Clifton.*
	a Shaftesbury .. 𝔐	46	3rd, 4th	29	9th	43·7	36·7	40·3	+ 2·3	5	20	4	0·12	− 0·46	*	*	*	*	* *
	a Arlington	48	3rd, 9th	30	9th	45·7	39·3	42·6	+ 2·8	16	8	6	0·44	− 0·73	12·0	+ 0·6	21	+ 1	Newquay.
	a Cullompton .. 𝔐	49	3rd	31	9th	46·0	38·3	42·3	+ 2·1	18	10	4	0·26	− 0·51	8·1	− 1·2	15	− 2	Cullompton.
	a Portland Bill ..	50	3rd, 4th	36	9th	48·4	42·3	45·5	+ 3·0	25	0	2	0·06	—	*11·9*	—	*21*	—	*Weymouth.*
	p Plymouth	51	3rd, 4th	34	9th	47·4	40·1	43·9	+ 1·2	21	5	6	0·37	− 0·48	8·6	− 2·7	15	− 5	Plymouth.
	p Falmouth	50	3, 4, 8th	35	9th	48·6	42·4	45·6	+ 1·5	25	0	6	0·65	− 0·48	12·2	− 0·4	22	− 1	Falmouth.
															10·1	− 2·4	18	− 4	*Torquay.*
9. IRELAND, N. a, West.	a Malin Head	50	3rd, 4th	37	8th	47·6	42·3	45·1	+ 3·6	22	0	5	0·82	+ 0·17	*	*	*	*	* *
	a Blacksod Point ..	52	3rd	37	6th	49·7	43·6	46·8	+ 3·9	34	0	6	0·71	− 0·49	*	*	*	*	* *
	p Markree Castle ..	52	3rd	30	6th	48·2	38·2	43·4	+ 3·5	26	11	5	0·73	− 0·18	8·1	− 0·4	16	− 1	Markree Castle.
b, East.	p Armagh	52	3rd	34	9th	46·6	39·4	43·1	+ 3·3	19	7	4	0·37	− 0·21	7·7	− 1·6	15	− 3	Armagh.
	a Donaghadee	52	3rd	36	7th, 8th	47·6	39·4	43·7	+ 2·8	23	7	3	0·34	− 0·29	*	*	*	*	* *
10. IRELAND, S. a, East.	p Dublin, City.. ..	53	3rd	34	9th	48·3	41·6	45·1	+ 3·2	23	1	5	0·33	− 0·15	11·4	− 1·0	22	− 2	Phœnix Park.
	a Kilkenny	51	3rd	30	9th	47·3	39·3	43·5	+ 3·0	22	8	4	0·36	− 0·40	*	*	*	*	* *
	a Waterford	54	3rd	31	9th	48·4	40·3	44·5	+ 2·7	25	5	3	0·24	− 0·68	*	*	*	*	* *
b, West.	a Birr Castle	51	3rd	31	9th	47·7	38·4	43·2	+ 3·2	24	10	5	0·40	− 0·27	4·6	− 6·2	9	−12	Birr Castle.
	a Foynes	51	3rd	36	6th	48·7	42·3	45·6	+ 3·3	25	0	5	0·53	− 0·37	*	*	*	*	* *
	a Cahir .. .. 𝔐	50	3rd, 9th	30	9th	46·5	40·4	43·6	+ 1·9	18	4	5	0·62	—	*	*	*	*	* *
	a Killarney	55	3rd	35	6th	50·1	42·2	46·3	+ 3·5	30	0	6	0·78	− 0·72	*	*	*	*	* *
	a Valencia	52	3, 7, 8th	42	7th, 9th	51·0	45·0	48·1	+ 3·0	43	0	6	0·57	− 0·77	1·8	− 8·6	3	−16	Valencia.
	a Roche's Point ..	52	4th	38	9th	50·3	44·1	47·3	+ 3·4	37	0	6	0·30	− 0·80	9·1	—	17	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	53	3rd	45	9th	51·0	46·7	48·9	+ 2·4	18	0	5	0·48	− 0·32	11·4	− 0·9	20	− 2	Scilly.
	a Jersey, St. Aubins ..	54	3rd	33	6th	48·9	40·0	44·6	+ 1·3	27	6	4	0·17	− 0·60	13·9	− 0·6	24	− 1	St. Heliers.
	a Guernsey	52	3rd, 6th	35	6th	48·7	41·5	45·2	+ 1·1	25	1	3	0·16	− 0·67	13·6	+ 2·9	24	+ 5	Guernsey.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	— — ..				
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	41·2
	Crathes	5	19	36·7	40·3
	Balmoral	4	25	—	—
	West Linton	3	18	—	—
	Marchmont ..	4	26	38·3	—
2.	Cockle Park	6	18	37·9	40·3
	Durham	3	28	—	—
	York	—	—	39·5	43·0
	Hull	5	26	39·4	44·1
	Lincoln	—	—	37·9	43·5
	Rauceby	4	26	38·9	44·1
3.	Norwich	4	26	—	—
	Yarmouth	—	—	38·2	43·1
	Lowestoft	3	28	39·6	43·2
	Cambridge	3	27	39·4	43·9
	Clacton-on-Sea ..	3	26	40·9	45·5
	Southend	5	25	40·6	—
	Tottenham	1	29	—	45·1
4.	Harrogate	3	26	40·1	41·4
	Huddersfield ..	3	26	39·6	43·0
	Buxton	4	19	39·1	43·5
	Sheffield	4	27	39·4	43·2
	Nottingham	4	27	38·3	41·3
	Birmingham	4	25	41·4	45·3
	Oxford	5	22	—	—
	Hereford	5	20	—	—
	Cirencester	3	27	—	—
5.	Margate	0	33	40·7	43·1
	Greenwich	5	21	—	—
	Westminster ..	4	27	—	—
	Kew	5	22	40·1	44·9
	Canterbury	3	25	40·7	45·7
	Tunbridge Wells ..	5	27	39·8	—
	Wisley	4	26	40·4	44·3
	Worthing	2	28	40·4	45·2
	Portsmouth	2	27	43·2	46·2
6.	Glasgow	2	27	—	—
	Rothesay	—	—	—	43·9
	Colmonel	1	29	—	—
	Dumfries	2	22	—	—
	Douglas	2	29	—	—
7.	Aspatria	3	21	—	—
	Newton Rigg ..	3	21	38·7	41·3
	Burnley	4	21	39·3	42·6
	Southport	1	23	39·8	42·4
	Manchester City ..	1	28	39·2	44·1
	Bettws-y-Coed ..	1	27	42·4	45·0
8.	Llangammarch Wells	6	12	42·1	46·0
	Cardiff	4	26	42·2	45·6
	Clifton	1	26	—	—
	Bath	—	—	42·2	47·4
	Plymouth	—	—	45·3	—
9.	Armagh	3	27	43·1	45·4
	Markree	2	24	—	—
10.	Dublin, Trin. Coll. ..	1	28	44·0	46·0
11.	Guernsey, Brooklyn	1	28	44·6	47·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	46	44	44·8
	Kirkwall	44	39	42·1
	Wick	45	46	46·0
SCOTLAND, E.	Cromarty	44	42	42·9
	Pennan Bay	42	40	40·8
	Aberdeen, Cove Bay ..	37	36	36·7
ENGLAND, N.E.	Burnmouth, Berwick ..	44	42	43·2
	Scarborough	45	39	41·0
ENGLAND, E.	Shipwash Lightship ..	44	40	42·7
	Margate	41	36	39·5
ENGLAND, S.E.	Eastbourne‡	43	40	41·6
SCOTLAND, W.	Lamlash	50	47	48·9
	Ballantrae	45	44	44·3
ENGLAND, N.W.	Port Erin	49	47	48·1
ENGLAND, S.W.	Newquay	49	49	49·0
	Plymouth‡	53	49	50·2
	Salcombe	50	48	49·2
IRELAND, N.W.	Sheephaven	49	46	46·4
	Teelin	49	45	47·3
IRELAND, S.W.	Cleggan	46	44	44·7
	Seafield	50	47	48·6
IRELAND, E.	.. ..			

‡ Only one observation each day.

VII.—*Continued* from p. 16.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees from North through East) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.												
12	Jan. 8th, 1.48 p.m. to 3.20 p.m.	Howard Estate, Glossop, 336 m.	Temperature	74·5°	74°	**73°**	**69°**	**65°**			64·5	1,570	Fresh breeze, increasing to high wind later. Fr.-cu. clouds at 1,370 m.
			Humidity ..	75%	73%	72%	78%	85%			85%		
			Wind	338°, 12	330°,15·5	324°,17·0	312°,21·5	310°, 2·4			310°, 24		
13	Jan. 9th, 11.50 a.m. to 2.0 p.m.	Brighton, 115 m.	Temperature	76·6°	75·2°	74·7°	**71·6°**				70·8°	1,160	Temp., etc., refer to descent. Overcast to half-overcast. Ci.-cu. Erratic wind near ground, very steady above 200 m.
			Humidity ..	85%	85%	70%	60%				55%		
			Wind	337°, 2	337°,4·5	360,° 8·0	360°,9·0				360°, 9·0		
14	Jan. 9th, 12.7 p.m. to 12.32 p.m.	Howard Estate, Glossop, 336 m.	Temperature	73·5°	74·5°						74·5°	450	Station enveloped in mist. Observations by captive balloon. Negative temp. gradient.
			Humidity ..	95%	100%						100%		
			Wind	287°, 1	291°,4·5						292°,0·5		

APPARATUS USED IN THE KITE OR BALLOON ASCENTS. (*See* p. 16.)

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
No. of Kites	1	—	—	3	2	2	2	1	2	1	1	1	2	—
Area of Surface (sq. metres) ..	7·2	—	—	21·5	14·3	14·3	10	3·9	9·4	7	3·9	3·9	9·5	—
Capacity of Balloon (cub. metres)	—	2·4	5·4	—	—	—	—	—	—	—	—	—	—	5·4
Length of Wire (metres) ..	3,220	—	—	4,300	1,380	3,350	2,750	1,380	2,500	1,220	1,680	1,830	2,500	—

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟿ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

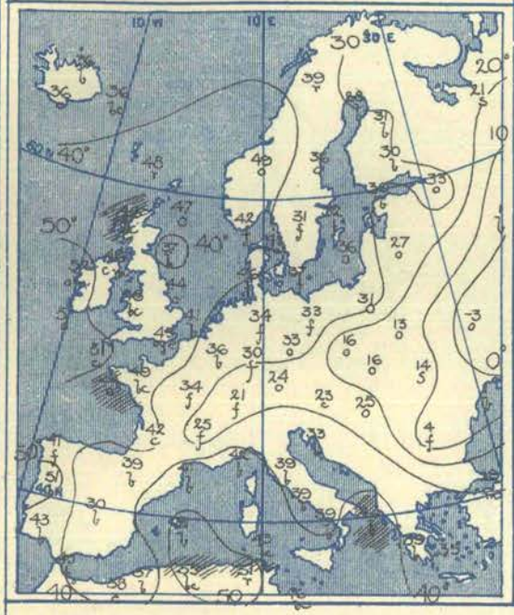
ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = [2]73°, Normal boiling point of water = [3]73°). The figure in the "hundreds" place [2] is not printed in the tables. Values at or below the freezing point of water (73°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7.

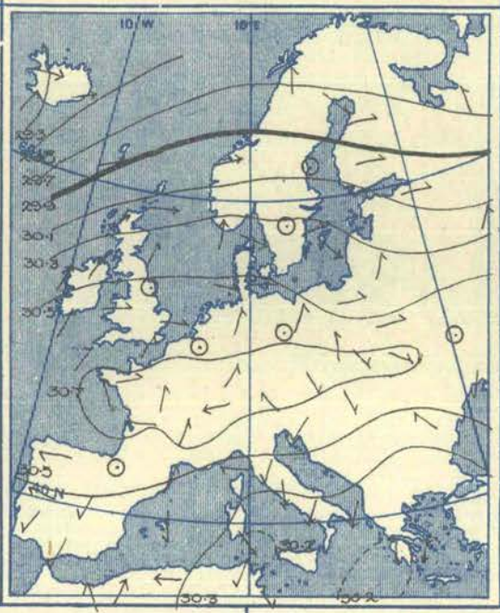
See also p. 4.

Sunday, 3rd January, 1909.

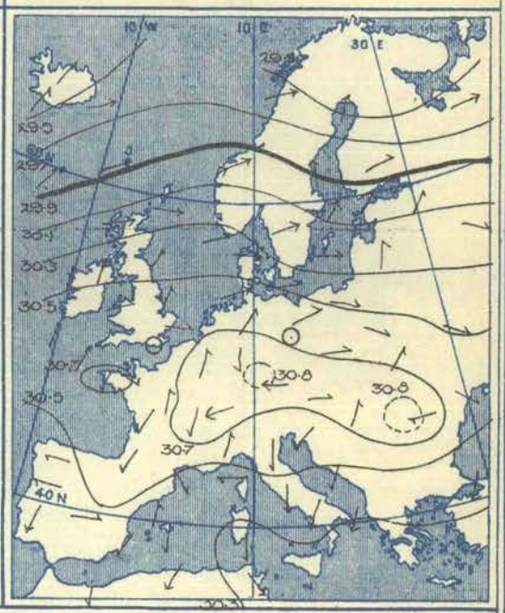
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of the Mediterranean region, but rainy at La Calle. Very cloudy or entirely overcast in most other parts of our area, with fog over the Baltic, Germany and the east of France, and rain at Castlebay, Thorshavn and Bodö, and snow at Lemberg. Heavy rain later in the west of Norway and considerable falls at Malta and in Algeria.

Temperature showing no decided change. Readings in morning much below 32° in the east of France, and nearly the whole of central and eastern Europe, and below zero in Little Russia. About 50° in Ireland and on the south-west coast of England and also at a few stations on the shores of the Mediterranean. Frost continuing all day in Austria-Hungary, as well as in the east of France and south Germany; maximum only 5° at Hermanstadt. Thermometer touching or slightly exceeding 50° over a very large portion of the United Kingdom.

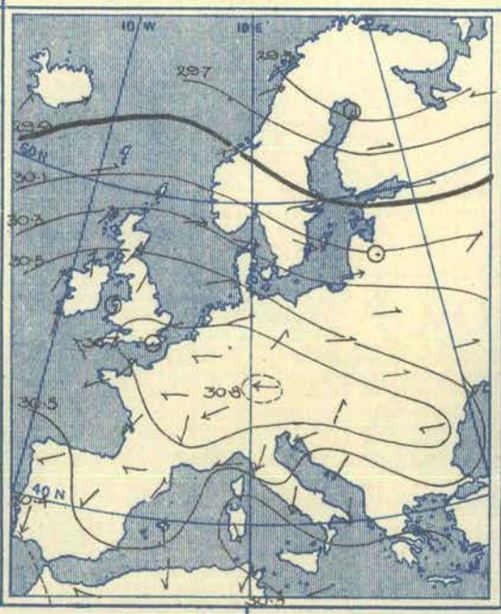
Wind in morning mainly Westerly over the northern half of our area; light or moderate generally, but fresh or strong between the coast of Scotland and Iceland. A North-Easterly gale prevailing in Greece, and a light to strong breeze from some Northerly point over the south of our area as a whole. Increasing to a strong gale from West-South-West at Christiansund, but decreasing in force in Iceland.

Barometer in morning above 30·7 ins. in the central portion of an extensive high pressure system covering most of central Europe and stretching to the Bay of Biscay. Below 30·2 ins. in a depression between Sicily and Sardinia, and below 29·3 ins. in another disturbance to the westward of Iceland. Scarcely any alteration occurring during day in the general distribution of pressure. Icelandic disturbance apparently travelling away to the north-eastward.

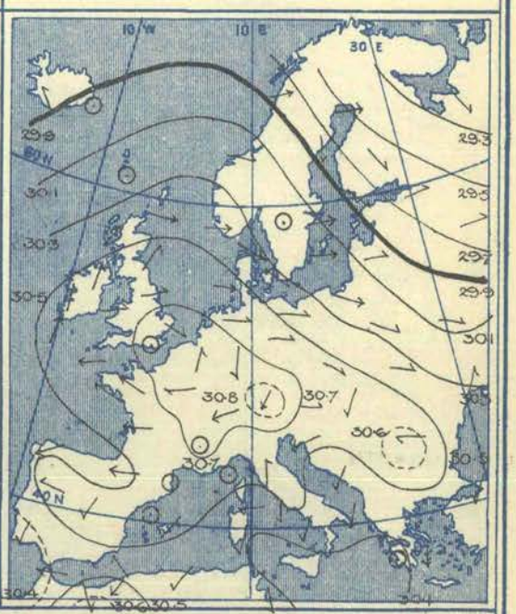
Monday, 4th January, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in Finland, Sweden, and also over most of the Mediterranean area; overcast in nearly all other regions, with much fog or mist over Germany, France, and at some English stations, and rain in the Hebrides, Shetland, and the north-west of Norway, and snow at St. Petersburg. Very little precipitation later except at Christiansund, Constantinople, and in Greece.

Temperature changed rather irregularly. Morning readings above 50° at Malta, Algiers, and in the Hebrides and at Wick. Below 10° in Little Russia and at Hermanstadt, and below 30° over a considerable part of the mainland of Europe. Maximum during day 56° at Wick and about 50° in many other parts of these Islands. Maxima very low in most parts of southern Europe, but about 60° on the coast of Algeria. Frost continuing throughout the day in the east of France and in Transylvania.

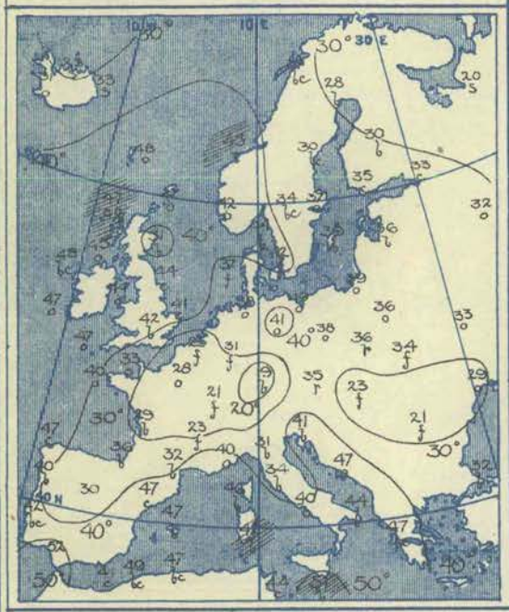
Wind in morning strong to high from the Westward on the coast of Norway, and moderate to fresh or strong from that quarter over the more northern districts of our area generally. Mainly Northerly over Italy and the surrounding regions, and strong in force; a North-Easterly gale prevailing at Malta. Little change of importance later in day; Norwegian gale subsiding.

Barometer in morning above 30·8 ins. in Bavaria, in the centre of a large anticyclone; decreasing to below 29·3 ins. in the south-east of our area, and to below 29·5 ins. in the far north. No great change in the general distribution during day. Pressure increasing slightly over Great Britain and the North Sea and also in Iceland, falling slowly over the Bay of Biscay and in the south of Ireland.

Tuesday, 5th January, 1909.

Temperature and Weather.

7 a.m.

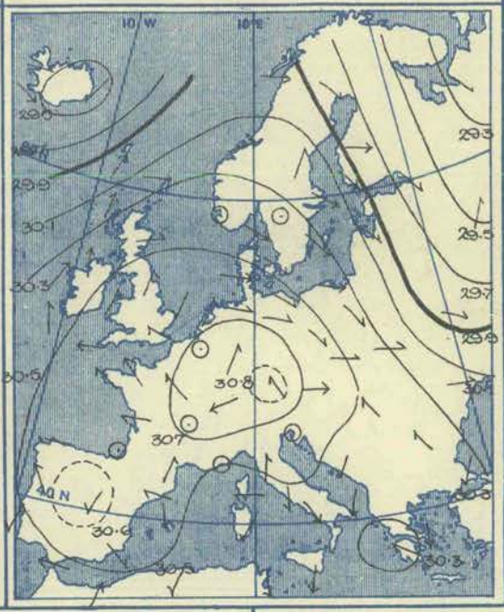


Weather in morning fair to fine and bright over the Mediterranean and also in several districts in the north of our area; overcast in most parts of this country and in central Europe, with rain at Vienna and Cracow. Snow falling at Archangel and rain at Christiansund, and fog prevailing at several stations in Germany and the east of France. Rain experienced later in the north and west of these Islands and also along the west coast of Norway, but condition continuing dry over our area generally.

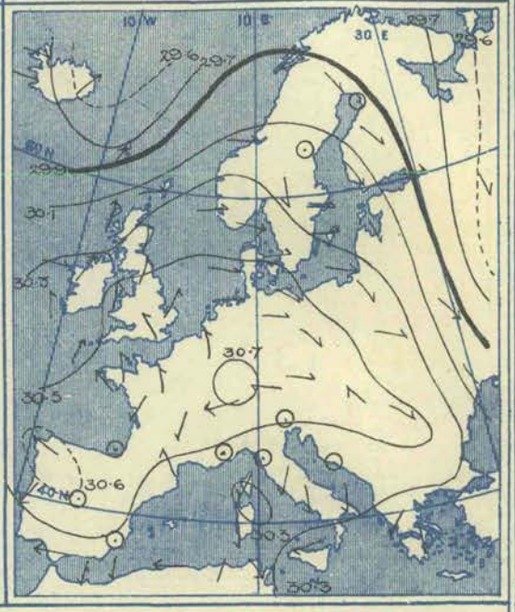
Temperature fallen over the United Kingdom and its immediate neighbourhood. Readings in morning below 50° except at a few places in the far south, below 40° over the Continent as a whole, below 30° over most of France and eastern Germany, as well as in Russia and the north of Sweden. Maxima during day only about 40° over a large portion of England, and below 30° at many French stations and in several parts of eastern and north-eastern Europe, but about 50° in Iceland and over the Mediterranean, and 60° in some parts of Algeria.

Barometer and Wind.

7 a.m.



6 p.m.



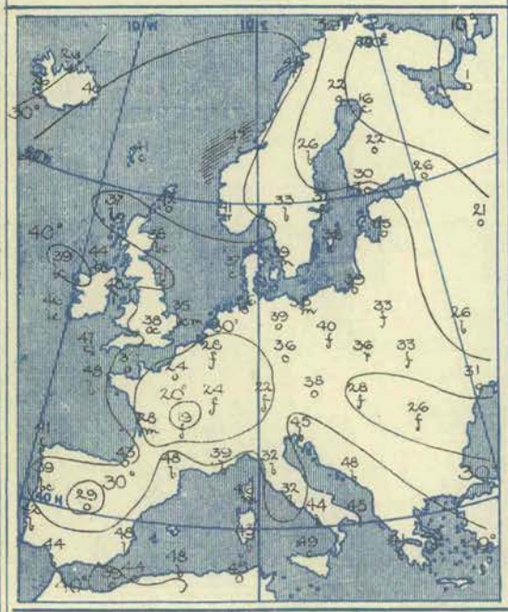
Wind in morning showing an extensive anticyclonic circulation over the central countries, and cyclonic movements in the Icelandic region and also over the Mediterranean. Light or moderate as a whole, but fresh or strong in some localities both in the north and south. Little change later as a whole, but decreasing in force in most Continental regions, and increasing to a gale at Thorshavn.

Barometer in morning above 30·8 ins. at Munich and above 30·6 ins. in a secondary anticyclone over central Spain. Below 29·5 ins. in a depression situated over Iceland, and less than 29·3 ins. in the extreme north of Russia. Relatively low over the Mediterranean. Scarcely any alteration occurring in the general distribution of pressure during day. A depression travelling towards Norway from Iceland and barometer rising briskly in its rear. Gradients increasing between Scotland and the Faeröe.

Wednesday, 6th January, 1909.

Temperature and Weather.

7 a.m.

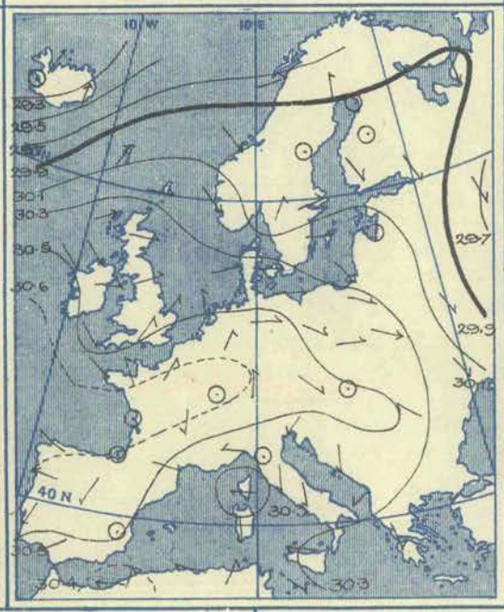


Weather in morning fair or fine and bright at nearly all places in the south of our area, and at many in Ireland and Scotland; generally cloudy or overcast elsewhere, with rain in various parts of England and Wales as well as at a few stations on the Continent. Heavy snow in Finland later, and slight falls of rain or snow in central Europe. Some rain in most parts of these Islands, and a thunderstorm in the Hebrides.

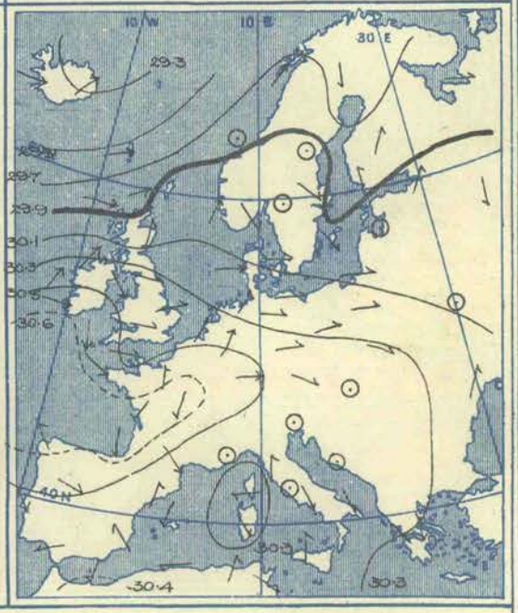
Temperature fallen in most regions. Morning readings below 25° over a large portion of France, south Germany and Russia, and as low as 1° at Archangel. About 45° in the west and south-west of this country and on various shores of the Mediterranean, and nearly 50° at a few places. Maxima during day 63° at La Calle and about 55° at some other stations in the far south, but very little above 50° in Italy, below the freezing point over the east of France, and not much above it in Germany and Austria. Thermometer remaining below 45° in most parts of Great Britain.

Barometer and Wind.

7 a.m.



6 p.m.

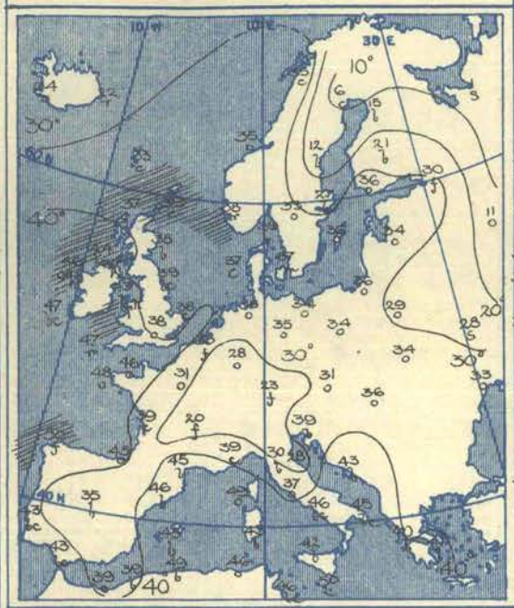


Wind in morning light or moderate from between North and North-West in Ireland, and Westerly over Great Britain. Mainly from some Westerly point over the northern half of Europe, and of little force generally. An irregular cyclonic circulation of little strength prevailing over the Mediterranean. Backing to the South-Westward later and increasing to a strong breeze on our west and north-west coasts, and veering again in night.

Barometer in morning above 30·6 ins. in a band extending from the Bay of Biscay to south Germany. Relatively low in depressions over the Mediterranean and central Russia, and below 29·3 ins. in a larger system over Iceland and its vicinity. Shallow secondary shown over England. Icelandic disturbance travelling eastwards later, and some other secondaries appearing over this country from the Atlantic. Gradients becoming steeper over these Islands during evening and night.

Thursday, 7th January, 1909.

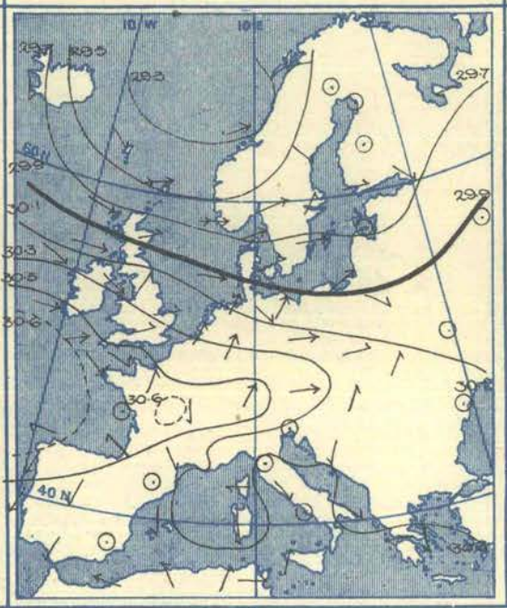
Temperature and Weather. 7 a.m.



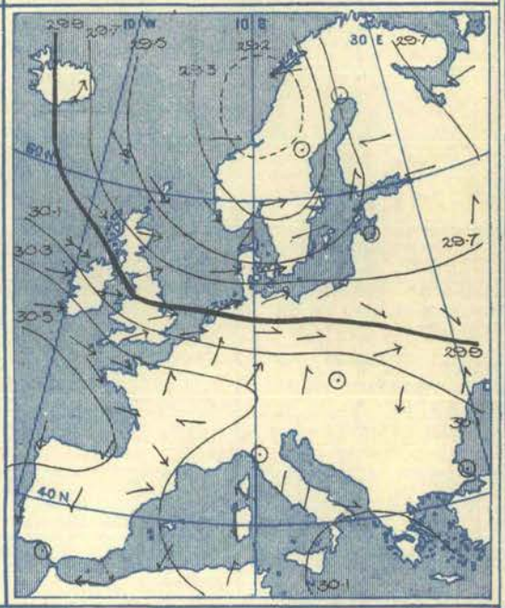
Weather in morning rainy in some parts of these Islands, the south of Norway, and at Cracow, and overcast over the northern half of our area as a whole, and snow falling at some Russian stations. Fair or fine over the south of our area. Some rain later in almost all parts of these Islands and the nearer regions of the Continent, and some snow in the central countries. Thunder and lightning in the Hebrides and also in London during night.

Temperature showing no decided or general change. Morning readings below 20° over a large portion of Russia, Finland and Sweden, and only 20° at Lyons. Above 45° on our extreme west and south-west coasts, and on various shores of the Mediterranean. Thermometer remaining below 40° at some of our eastern stations and also over most of central Europe, and below 32° at Lyons. Maxima above 50° at a few places in the far south, and as high as 60° on the coast of Algeria.

Barometer and Wind. 7 a.m.



6 p.m.

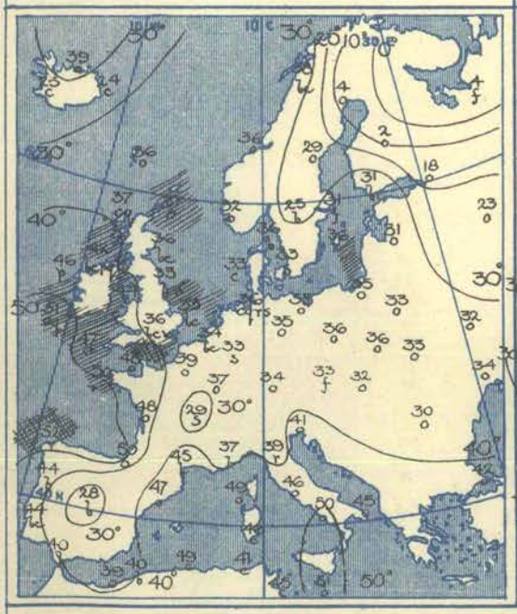


Wind in morning strong to high from the Westward in the west and north of these Islands, and blowing a gale from that quarter in Shetland and also at Skudesnaes. A light or moderate breeze from variable points prevailing over the south of our area, and a moderate to very strong Westerly current over the Baltic region. Increasing in force later over most of this country and the North Sea region, and blowing a gale in places. Veering towards North-West on our northern coasts.

Barometer in morning ranging from above 30·6 ins. in an anticyclone having its central space over the Bay of Biscay, to below 29·3 ins. in a very large depression between Norway and Iceland. Depression in north moving eastwards and south-eastwards later, and gradient increasing decidedly over these Islands and their vicinity. Pressure increasing briskly in the rear of the disturbance over the Icelandic region. Anticyclonic centre maintaining its position over the Bay of Biscay.

Friday, 8th January, 1909.

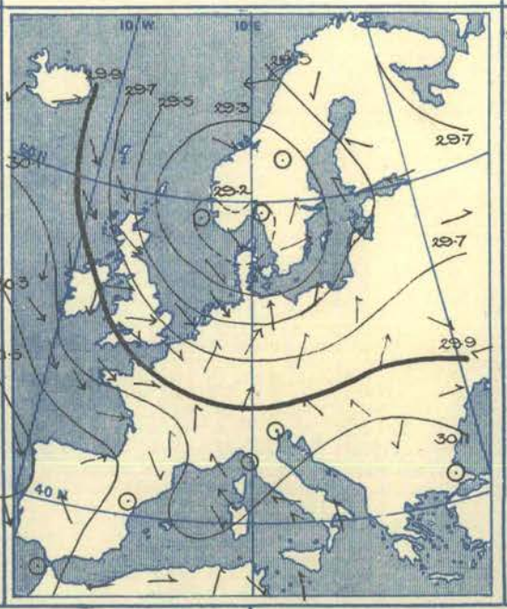
Temperature and Weather. 7 a.m.



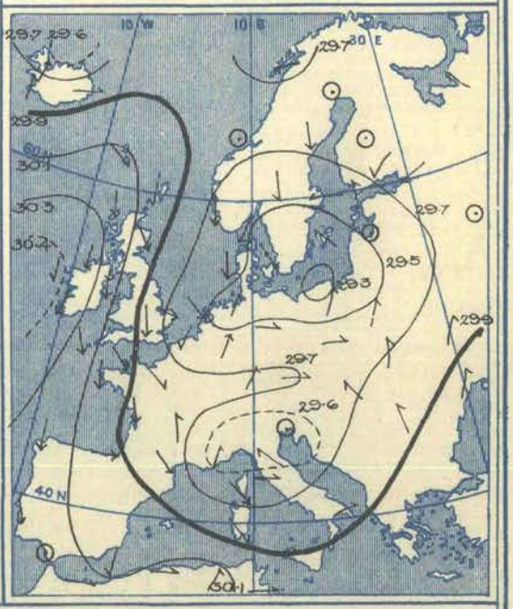
Weather in morning fair to fine and bright over a considerable portion of these Islands and in various regions elsewhere, but generally very cloudy or overcast, with occasional showers of rain or snow both in this country and on the Continent. Considerable falls of rain later in several parts of France, Italy, and at Trieste and Algiers, and some snow or sleet at many stations in Germany and these Islands. Lightning observed in the evening at Yarmouth, and a thunderstorm occurring at Paris.

Temperature fallen over the United Kingdom, risen over France and Germany. Readings in morning below 40° over nearly all of the mainland of the Continent, and below 30° at Lyons, less than 10° in the north-east, and as low as −4° at Haparanda. About 50° on the south coast of Ireland and at a few places in southern Europe. Maxima during day below 40° in some parts of Great Britain, the east of France, and in the central countries, as well as in northern Italy, only 50° at Rome, and 48° at Tunis.

Barometer and Wind. 7 a.m.



6 p.m.

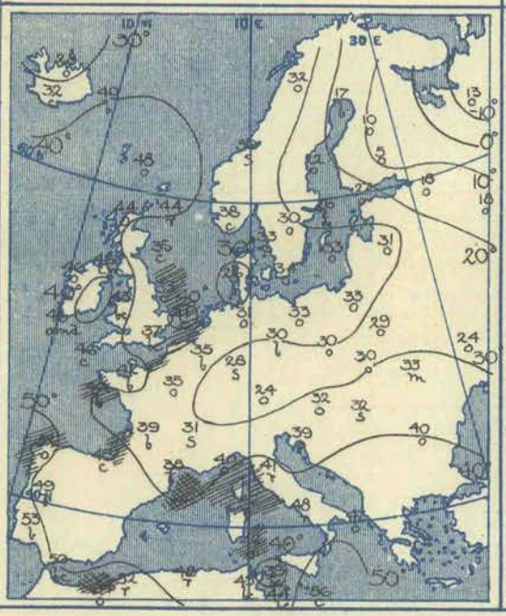


Wind in morning showing a very extensive cyclonic circulation over all the northern and north-western countries; North-Westerly current fresh to strong or high over these Islands and the North Sea. Light to moderate winds from no general direction prevailing over the Mediterranean region. Wind becoming more Northerly over this country during day and increasing in force generally; blowing a gale on some parts of the coast. Some increase in force also taking place on the shores of the Mediterranean. Backing towards South in Iceland.

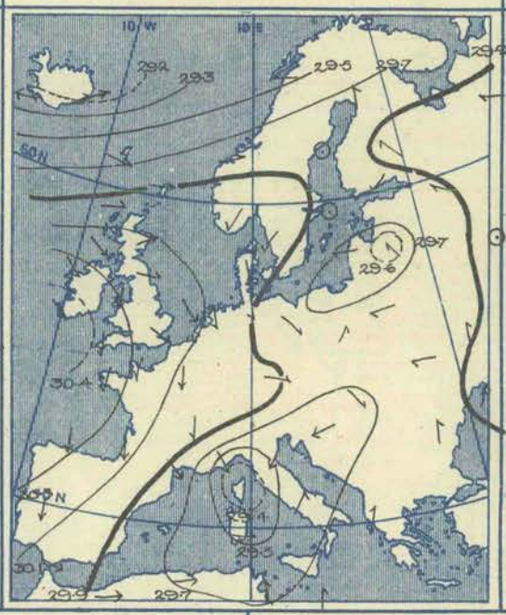
Barometer in morning ranging from above 30·5 ins. between the Peninsula and the Azores, to below 29·2 ins. in a large depression having its minimum over the Skager Rack. Surrounding gradients steep in several districts. A depression in course of formation over the Gulf of Genoa. Barometer rising quickly later in the north of our Islands and falling equally quickly in Iceland. Main depression moving south-eastwards, and a large and rather deep system appearing over northern Italy and its vicinity.

Saturday, 9th January, 1909.

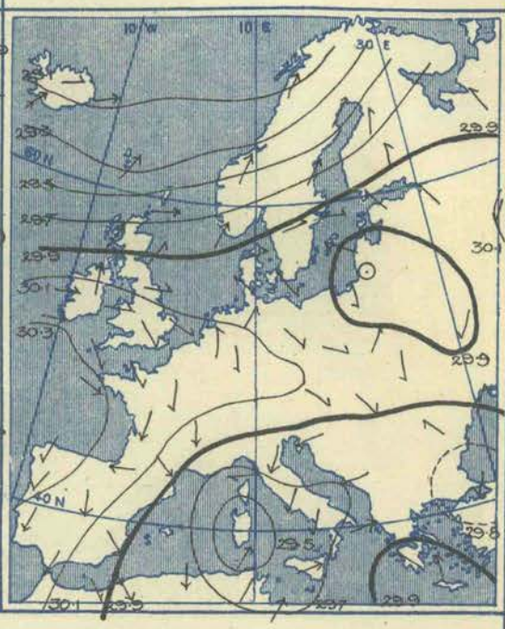
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy at Sumburgh Head and Valencia, as well as in various parts of Italy and Algeria, and snow falling at Christiansund. Sky very cloudy or quite overcast in most other regions, but clear in Portugal and the west of France. Rain in considerable quantities later in Italy and on the shores of the Adriatic, as well as at some Algerian stations and at Patras, in Shetland and the west of Norway. Heaviest amount about 2·25 ins. at Rome. Slight falls experienced in most parts of these Islands.

Temperature fallen in this country and over a large portion of the Continent. Morning readings below 40° over this country and Europe generally, and below 30° over south Germany and Russia; lowest value −13° at Archangel. Above 45° at some places in the extreme south, and as high as 56° at Malta. Maxima during day below 45° in some parts of England, not much above 32° in the central countries and a large portion of France, and only 41° at Nice. Thermometer rising to above 50° in the far south of our area.

Wind in morning showing a cyclonic movement over the Baltic and the surrounding regions, and also over the western portion of the Mediterranean; fresh to strong in force over the latter region. A gale from the Westward prevailing over Iceland, and moderate to light winds between West and North over these Islands. Little change later in day.

Barometer in morning above 30·4 ins. over the south-west of Ireland and the adjacent part of the Atlantic; below 29·7 ins. in a depression over the Baltic, below 29·4 ins. in another system having its minimum between Corsica and France, and less than 29·2 ins. in a large disturbance to the northward of Iceland. Depressions on the Baltic and Mediterranean becoming less deep during day, but that over the Icelandic region apparently extending southwards and south-eastwards. Barometer falling rather decidedly to the south-west of this country.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees from North through East) and Velocity (Metres per Second). (*See* also p. 12.)

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Jan. 1st, 1.15 p.m. to 3.20 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	79·5° 92% 213°, 4·5	79° 93% 225°, 7·6	79° 94% 225°, 9·8	75·5° 100% 247°, 13·4	74° 90% 253°, 14·3			78·5° 45% 247°, 13·4	1,740	
2	Jan. 2nd, 4.34 p.m. to 4.47 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	79·5° 97% 202°, 0·9							80° 97% 202°, 2·2	450	
3	Jan. 4th, 12.38 p.m. to 1.45 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	78·5° 95% 225°, 0·5	78° 95% 222°, 1·5	77·5° 95% 222°, 2·5					76·5° 92% 235°, 3·5	880	Overcast, mild, damp. Wind variable, falling off to dead calm. Observations by captive balloon.
4	Jan. 5th, 11.0 a.m. to 1.35 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	76° 85% 192°, 5	75° 87% 190°, 7	74·5° 88% 189°, 8	70° 98% 193°, 11·5				70° 85% 213°, ?	2,770	Clock stopped at 1,350 metres; Temp. inversion at 1,300 metres; min. temp. up to 2,770 metres = 270°, min. humidity = 35%.
5	Jan. 6th, 1.34 p.m. to 3.0 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	76·5° 95% 304°, 3·5	76° 97% 303°, 6	76° 98% 302°, 7	73·5° 100% 298°, 12·5				72° 100% 292°, 14	1,330	Clock stopped at 1,330 metres.
6	Jan. 6th, 2.55 p.m. to 4.30 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	76·5° 95% 292°, —	76° 94% 292°, —	75·5° 93% 291°, —	72·5° 85% 291°, —	70° 80% 290°, —			67° 90% 270°, —	2,090	Calm morning, gentle breeze later. Station enveloped in mist at times.
7	Jan. 7th, 10.15 a.m. to 12.30 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	78° 90% 248°, 54	77·4° 90% 270°, 12·5	75·8° 100% 281°, 17·0	74·7° 75% 292°, 14·8	73° 70% 285°, 15·7			72·4°? 30% 280°, 18·0	1,880	Inversion at top. Clock stopped, making temp. for highest point doubtful. Clear at start. Overcast with rising wind at 2 p.m. Gale in afternoon.
8	Jan. 7th, 11.19 a.m. to 1.0 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	76° 90% 248°, 10	75° 92% 252°, 12·5	74·5° 92% 255°, 13·5	71° 97% 265°, 18·5				68·5° 97% 281°, 17·5	1,400	Fresh breeze. Nimbus clouds at 2,500 ft.
9	Jan. 7th, 9.45 a.m. to 12.10 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	79° 90% 270°, 2	78° 95% 270°, 13	76° 90% 280°, 14	74° 100% 280°, 15	72·5° 100% 290°, 15			71·5° % ? 15	1,750	Overcast. S.-cu. to clear sky, with Fracto.-cu. Lowest clouds, 750 m.
10	Jan. 8th, 9.40 a.m. to 10.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	77·4° 90% 292°, 6·7	75·8° 90% 304°, 15·7	74·1° 100% 315°, 18·0	72·4° 80% 315°, 19·3				71·9° 70% 315°, 20·1	1,160	Sky clear at start. Overcast by 10.30 a.m. Steady wind below cloud layer, then jerky.
11	Jan. 8th, 11.53 a.m. to 1.6 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	74° 80% 327°, 9	73·5° 82% —°, 12	73° 83% —°, 13·5	68·5° 90% —, 17				65° 92% —, 20·5	1,430	Fresh breeze, increasing to high wind later. Fr.-cu. clouds at 1,370 m.

63, Victoria Street, London, S.W. *January 13th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 2. SECOND WEEK, ENDING SATURDAY, JANUARY 16TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was generally rough and very unsettled. Rain fell frequently in the south and east, alternating with very fine intervals, while in the western and northern districts rain, sleet, or snow occurred nearly every day. In Scotland the snow which was experienced during the latter part of the period was very heavy, many places receiving successive falls yielding, when melted, more than 0·5in. of water in the gauge; heavy snow was also general in the north of Ireland. All parts of the Kingdom were visited by a thunderstorm some time during the week, and in some localities the disturbances were severe.

Temperature was subject to frequent and violent changes in the north and north-west of the Kingdom. In Scotland and the north of Ireland the mean for the week was below the average, but in England and in Ireland S. it was above it, the excess in the Eastern, Central, and Southern Counties being more than 3°. The highest of the maxima were registered during the early days of the week at most stations, and varied from 54° in the Midland Counties to 49° in Scotland N. Late in the week the maxima at some Scottish stations were very little above 32°. The lowest of the minima, which occurred generally during the latter half of the week, ranged from 18° in Scotland E. (at Balmoral), and 24° in Scotland N. to 30° in Ireland S., and to 39° in the English Channel. The lowest grass temperatures reported were 9° at Crathes, 12° at Balmoral, 16° at West Linton, 19° at Cockle Park (Morpeth), 21° at Clacton-on-Sea, and 22° at Norwich.

Mean Temperature of the Sea.—The temperature was more than 4° higher than during the corresponding week of last year on the south-west coast of England, but in several other localities it was rather lower. The actual figures ranged from 49°·7 at Plymouth, and 49°·0 at Newquay to about 40°·0 at Margate and Kirkwall, and to 35°·5 at Aberdeen.

Rainfall (rain and snow) exceeded the average in all districts except England E. and N.E. The excess was very large in Scotland, the north-west of England and north of Ireland, and also in the English Channel, but moderate elsewhere.

Bright Sunshine greatly exceeded the average over the eastern half of England, and was slightly above it in Scotland E. In Ireland and the western districts of Great Britain it was about the normal figure or below it. The percentage of the possible duration ranged from 43 in England E. and 37 in England N.E. to below 20 in all the western parts of the Kingdom, and to 6 in Scotland N.

Barometer and Wind.—Very large cyclonic systems having their minima over the Icelandic region, and some small secondary disturbances which passed eastward directly over this country, caused a succession of very strong winds or gales from between S.W. and W. or N.W. over the Kingdom generally, and sometimes over the North Sea also. Gales were much more frequent, as well as more severe, on the west and north-west coasts than in the east; the greatest force reported was "11" at Scilly early on Saturday morning.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 20.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1 Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Moderate	Moderate	Unusual	Unusual	Unusual	Moderate	Moderate	Unusual	Moderate	Moderate	Unusual
	Rainfall ...	Very heavy	Very heavy	Moderate	Moderate	Heavy	Moderate	Very heavy	Very heavy	Heavy	Heavy	Heavy	Very heavy
	Sunshine ...	Moderate	Abundant	Very abundant	abundant	Very abundant	Very abundant	Moderate	Moderate	Moderate	Moderate	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1908–9. 7 weeks from Nov. 29th, 1908.	Warmth ...	3 * 1	3 * 0	2 * 2	3 * 1	2 * 1	3 * 1	3 * 0	3 * 1	4 * 1	4 * 0	3 * 0	4 * 0
	Rainfall ...	2 * 1	1 * 3	0 * 2	2 * 3	2 * 2	3 * 3	3 * 0	1 * 2	3 * 3	2 * 1	3 * 2	4 * 3
	Sunshine ...	3 * 2	4 * 1	1 * 2	1 * 4	2 * 4	1 * 3	3 * 2	3 * 1	1 * 2	3 * 2	0 * 4	1 * 3

PAST SEASONS.

WINTER, 1907–8. Dec. 1st–Feb. 29th. 13 weeks.	Warmth ...	4 * 2	4 * 1	3 * 4	4 * 3	4 * 3	5 * 4	5 * 3	4 * 4	3 * 3	5 * 3	5 * 3	4 * 2
	Rainfall ...	4 * 4	6 * 5	4 * 6	5 * 5	4 * 8	3 * 7	7 * 3	8 * 4	3 * 4	6 * 3	2 * 3	4 * 5
	Sunshine ...	4 * 3	5 * 1	3 * 2	5 * 5	3 * 4	6 * 2	1 * 3	6 * 2	3 * 3	3 * 4	3 * 3	2 * 3
SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to previous Volumes of the Report.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

SECOND WEEK—January 10th to 16th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	49	24	39·9	31·0	35·6	− 2·4	0	− 6	45	+ 9	7	+ 2	2·41	+1·27	3	− 3	6	− 6
Eastern																		
1. SCOTLAND, EAST	51	18	40·0	30·5	35·5	− 1·3	0	− 5	46	+ 3	6	+ 3	1·33	+0·79	11	+ 3	22	+ 6
2. ENGLAND, N.E.	50	26	43·4	34·2	39·0	+ 0·9	4	− 3	30	− 5	6	+ 2	0·43	−0·03	19	+ 11	37	+22
3. ENGLAND, EAST	51	28	45·6	35·2	40·6	+ 3·3	10	+ 3	28	− 13	4	0	0·34	−0·05	23	+ 14	43	+25
4. MIDLAND COUNTIES	54	29	45·6	35·3	40·7	+ 3·3	10	+ 1	28	− 13	6	+ 2	0·62	+0·16	18	+ 10	34	+18
5. ENGLAND, S.E.	52	28	47·1	37·3	42·4	+ 3·3	23	+ 12	13	− 19	5	+ 2	0·65	+0·15	19	+ 9	34	+16
Western																		
6. SCOTLAND, WEST	51	26	42·6	33·9	38·4	− 0·8	2	− 6	30	+ 1	7	+ 3	2·28	+1·30	8	0	16	0
7. ENGLAND, N.W.	51	29	45·1	36·2	40·8	+ 1·5	9	0	24	− 5	7	+ 3	1·35	+0·73	7	− 1	13	− 2
8. ENGLAND, S.W.	52	28	47·9	38·3	43·3	+ 2·3	25	+ 9	10	− 13	7	+ 4	1·40	+0·62	11	0	19	0
9. IRELAND, NORTH	51	29	44·5	35·5	40·2	− 0·2	7	− 5	26	+ 1	7	+ 3	1·41	+0·67	8	− 1	15	− 2
10. IRELAND, SOUTH	53	30	47·9	37·8	43·0	+ 0·9	25	+ 6	12	− 7	7	+ 3	1·23	+0·32	6	− 5	11	− 9
11. ENGLISH CHANNEL	53	39	50·5	44·4	47·6	+ 3·4	39	+ 15	0	− 9	7	+ 3	1·75	+1·06	10	− 4	16	− 7

THE SEASON (**Winter**). Aggregates, &c., for the Period of 7 Weeks, November 29th, 1908, to January 16th, 1909.

0. SCOTLAND, NORTH	56	21	*	*	*	*	82	+30	154	− 78	41	+ 5	10·78	+2·16	29	− 3	9	− 1
Eastern																		
1. SCOTLAND, EAST	58	16	*	*	*	*	66	+21	239	− 48	28	0	3·85	−0·53	61	+12	19	+ 4
2. ENGLAND, N.E.	55	11	*	*	*	*	45	− 9	227	− 7	28	+ 2	2·22	−1·10	58	+ 2	16	0
3. ENGLAND, EAST	55	7	*	*	*	*	62	0	189	− 79	28	0	2·60	−0·43	53	−14	14	− 4
4. MIDLAND COUNTIES	56	3	*	*	*	*	73	+ 4	208	− 64	32	+ 5	2·89	−0·79	50	− 8	14	− 2
5. ENGLAND, S.E.	55	3	*	*	*	*	115	+17	135	− 62	30	+ 3	3·82	−0·07	63	− 7	16	− 2
Western																		
6. SCOTLAND, WEST	56	22	*	*	*	*	88	+16	143	− 44	38	+ 5	8·93	+0·93	47	0	14	0
7. ENGLAND, N.W.	56	16	*	*	*	*	87	+ 9	144	− 44	34	+ 5	4·78	−0·21	55	+ 6	15	+ 2
8. ENGLAND, SW	57	15	*	*	*	*	159	+31	60	− 79	38	+ 7	6·20	−0·47	62	−10	16	− 3
9. IRELAND, NORTH	54	24	*	*	*	*	136	+45	105	− 57	38	+ 4	6·35	+0·56	61	+ 1	17	0
10. IRELAND, SOUTH	58	26	*	*	*	*	215	+65	62	− 61	40	+ 7	6·24	−0·89	56	−18	15	− 5
11. ENGLISH CHANNEL	57	27	*	*	*	*	268	+68	9	− 37	35	+ 1	6·57	+0·78	86	− 6	22	− 2

THE YEAR.—Aggregates, &c., for the Period of 2 Weeks, January 3rd to 16th, 1909.

0. SCOTLAND, NORTH	56	24	*	*	*	*	11	− 1	58	− 15	13	+ 3	3·79	+1·56	9	− 1	10	− 1
Eastern																		
1. SCOTLAND, EAST	58	18	*	*	*	*	10	0	71	− 16	10	+ 3	1·84	+0·70	23	+ 8	24	+ 9
2. ENGLAND, N.E.	53	26	*	*	*	*	12	− 1	52	− 20	9	+ 1	0·72	−0·16	30	+ 15	29	+14
3. ENGLAND, EAST	51	25	*	*	*	*	16	+ 1	53	− 30	8	0	0·65	−0·19	33	+ 14	31	+13
4. MIDLAND COUNTIES	54	29	*	*	*	*	18	0	52	− 31	10	+ 2	0·86	−0·15	26	+ 9	24	+ 8
5. ENGLAND, S.E.	52	28	*	*	*	*	31	+ 8	33	− 31	8	+ 1	0·77	−0·27	29	+ 9	26	+ 8
Western																		
6. SCOTLAND, WEST	53	26	*	*	*	*	20	+ 4	40	− 20	12	+ 3	3·21	+1·14	18	+ 4	18	+ 4
7. ENGLAND, N.W.	55	29	*	*	*	*	25	+ 6	33	− 26	11	+ 3	1·79	+0·49	13	− 2	12	− 2
8. ENGLAND, S.W.	52	26	*	*	*	*	44	+ 12	17	− 29	12	+ 4	1·70	+0·01	19	− 2	17	− 2
9 IRELAND, NORTH	52	29	*	*	*	*	30	+ 6	30	− 20	12	+ 3	2·00	+0·45	16	− 1	16	− 1
10. IRELAND, SOUTH	55	30	*	*	*	*	50	+ 11	13	− 25	12	+ 3	1·69	−0·27	13	− 8	12	− 8
11. ENGLISH CHANNEL	54	33	*	*	*	*	68	+ 18	0	− 18	11	+ 2	2·02	+0·53	23	− 4	20	− 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation, (generally 7 a.m. or 9 a.m.) at Stations marked *a* and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ⚓ is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts	Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*45*	*10th*	*26*	*13th*	*39·4*	*30·4*	*35·1*	—	*0*	*48*	7	*1·64*	—	*2·0*	—	*5*	—	*Balta Sound.*
	a Sumburgh Head ..	44	13th	27	13th	39·7	32·6	36·3	- 3·0	0	40	7	2·04	+ 1·07	4·3	- 1·7	10	- 4	Deerness.
	a Stornoway	43	10th, 16th	28	13th, 16th	39·7	31·9	36·0	- 3·2	0	42	7	3·00	+ 1·79	3·5	- 2·6	8	- 6	Stornoway.
	a Castlebay, Barra Isd.	*49*	*16th*	*31*	*16th*	*44·9*	*35·4*	*40·3*	*- 1·1*	*8*	*26*	7	*1·47*	—	*3·7*	—	*8*	—	*Castlebay.*
	a Wick	42	10th	25	13th	38·4	29·9	34·3	- 3·9	0	54	7	1·40	+ 0·80	*	*	*	*	
	p Strathpeffer	49	10th	24	16th	40·7	30·0	35·6	- 1·1	0	45	7	1·78	+ 1·05	2·7	- 4·3	6	- 9	Strathpeffer.
	p Glencarron .. .. S	47	10th	25	16th	39·6	30·1	35·0	- 1·7	0	49	7	2·26	- 0·06	*	*	*	*	
	p Fort Augustus S	47	10th	26	12th, 13th	39·4	30·1	34·9	- 2·9	0	50	7	2·58	+ 1·31	0·4	- 2·8	1	- 6	Fort Augustus.
	p Fort William S	49	10th	28	16th	41·7	32·3	37·2	- 2·3	0	34	7	3·81	+ 1·64	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	48	10th	26	12th	39·6	30·8	35·4	- 2·9	0	46	7	1·17	+ 0·66	*5·4*	—	*12*	—	*Gordon Castle.*
	a Nairn	46	10th	25	13th	39·0	31·4	35·4	- 2·0	0	46	7	1·33	+ 0·90	4·7	—	10	—	Nairn.
	a Aberdeen	45	11th	25	13th	39·7	31·9	36·0	- 1·7	0	42	4	0·82	+ 0·27	14·5	+ 4·0	30	+ 8	Aberdeen.
	a Balmoral .. .. S	51	10th	18	12th	43·4	27·1	35·6	+ 1·3	4	56	6	1·09	+ 0·39	15·8	—	33	—	Crathes S.
	p Crieff .. .. S	47	10th	26	12th, 16th	38·7	29·6	34·3	- 2·9	0	54	7	2·12	+ 1·19	14·0	—	29	—	Balruddery
	a Leith	47	10th	31	12th, 16th	42·7	33·9	38·5	- 0·7	2	30	6	0·95	+ 0·58	6·3	0·0	13	0	Edinburgh.
	a West Linton .. S	43	10th	24	13th	37·8	28·2	33·2	- 3·2	0	62	7	1·97	—	*5·3*	—	*11*	—	*West Linton.*
	p Marchmont .. S	45	11th	28	13th	39·4	31·4	35·6	- 1·0	0	45	5	1·17	+ 0·64	10·4	+ 1·0	21	+ 2	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	47	10, 11, 14th	30	16th	42·7	33·2	38·1	- 0·1	2	32	5	0·81	+ 0·27	22·0	—	43	—	Cockle Park.
	a Shields	50	11th	31	10, 13, 16th	42·7	32·9	38·0	- 0·9	2	34	5	0·22	- 0·18	*16·4*	*+10·9*	*32*	*+21*	*Newcastle.*
	p Durham	47	10th, 11th	27	14th	42·5	32·5	37·7	+ 0·6	1	35	5	0·34	- 0·04	21·6	+12·0	42	+24	Durham.
	p Rounton .. .. M	47	10th, 11th	26	13th	43·1	33·2	38·4	+ 1·2	3	33	6	0·51	+ 0·11	*	*	*	*	
	p Scarborough .. M	49	11th	32	13th, 16th	44·9	35·6	40·4	+ 1·9	8	25	6	0·23	- 0·23	19·3	—	37	—	Scarborough.
	p York	49	11th	33	13th	44·6	37·5	41·2	+ 3·2	7	19	7	0·48	+ 0·11	5·5	- 0·9	11	- 2	York.
	a Spurn Head	46	10th, 14th	34	13, 14, 16th	42·4	36·3	39·5	+ 0·8	1	21	6	0·16	- 0·15	*	*	*	*	
	a Lincoln	49	10th, 11th	30	12, 13, 15, 16	44·5	31·6	38·3	+ 1·2	7	40	6	0·77	+ 0·38	26·0	—	49	—	Skegness.
	a Fulbeck	48	14th	31	10th	43·5	34·6	39·2	+ 2·0	4	28	5	0·36	- 0·03	20·3	—	38	—	Rauceby.
															20·3	—	38	—	*Lowestoft.*
	p Cromer	49	15th	30	13th	44·9	33·7	39·5	+ 2·4	8	32	6	0·19	—	24·2	—	46	—	Cromer.
3. ENGLAND, E.	*p* Hillington .. M	50	15th	28	13th	44·3	33·9	39·3	+ 2·2	6	31	5	0·40	- 0·07	13·1	+ 2·9	24	+ 5	Hillington.
	a Yarmouth	49	11th, 16th	32	10, 13, 14th	44·9	34·7	40·0	+ 2·2	8	29	4	0·22	- 0·18	28·6	—	53	—	Yarmouth.
	a Norwich	49	14th	29	13th	44·4	34·8	39·8	+ 2·3	7	28	6	0·30	—	*	*	*	*	
	p Geldeston	51	11th	30	13th	46·3	34·9	40·8	+ 2·6	12	29	4	0·30	- 0·07	24·3	+12·6	45	+23	Geldeston.
	p Cambridge	50	10, 11, 15th	31	13th	46·9	35·5	41·4	+ 3·7	14	28	4	0·27	- 0·04	25·8	+15·1	48	+28	Cambridge.
	a Felixstowe	*48*	*14th*	*32*	*10th*	*45·1*	*36·3*	*40·9*	*+ 2·4*	*9*	*24*	*4*	*0·38*	—	*25·1*	—	*47*	—	*Felixstowe.*
	a Clacton-on-Sea ..	47	11th	31	10th	44·7	36·1	40·6	+ 2·3	8	24	3	0·56	—	24·6	—	45	—	Clacton.
	a Rothamsted ..	51	10th	32	13th	46·7	35·2	41·2	+ 3·8	13	29	4	0·43	- 0·04	25·1	+14·7	46	+27	Rothamsted.
	a Shoeburyness ..	*50*	*11th*	*33*	*10th*	*45·4*	*37·6*	*41·7*	*+ 3·0*	*10*	*19*	*3*	*0·28*	*0·00*	*22·5*	—	*41*	—	*Southend.*
	p Tottenham	51	15th	35	13th	46·9	38·3	42·8	+ 4·0	21	10	4	0·38	—	21·3	—	39	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	47	11th	30	16th	42·8	34·0	38·6	+ 1·5	2	30	6	0·80	+ 0·28	17·3	—	33	—	Harrogate.
	a Bawtry	49	10th	33	12th, 13th	44·6	35·6	40·3	+ 2·6	7	26	5	0·59	+ 0·22	15·7	+ 8·0	30	+15	Worksop.
	p Buxton .. M	*45*	*10th, 11th*	*29*	*13th, 16th*	*40·3*	*33·4*	*37·3*	*+ 1·8*	*0*	*33*	*7*	*1·48*	*+ 0·38*	*10·9*	—	*21*	—	*Buxton.*
	a Nottingham ..	49	10th, 11th	29	13th	45·0	34·4	39·9	+ 2·1	8	30	6	0·58	+ 0·16	20·8	—	39	—	Nottingham.
	p Birmingham, Edgbn	50	10th	30	16th	45·8	35·3	40·8	+ 3·0	11	28	5	0·48	+ 0·02	14·6	—	27	—	Birmingham.
	a Raunds .. M	49	10, 11, 14th	30	13th	45·6	35·4	40·7	+ 3·5	10	27	4	0·34	—	*	*	*	*	
	a Oxford	50	10th, 14th	32	10th	46·7	36·6	41·9	+ 3·1	13	24	5	0·53	+ 0·13	23·9	+13·5	44	+25	Oxford.
	a Cheadle .. M	46	10th	29	16th	42·2	33·2	37·9	+ 1·2	1	32	5	0·63	+ 0·06	17·4	—	33	—	Sheffield.
	p Shrewsbury	50	10, 11, 15th	32	13th, 16th	47·7	35·9	42·0	+ 3·4	16	17	7	0·57	—	*	*	*	*	
	a Hereford .. M	54	10th	31	10th	47·1	35·1	41·3	+ 3·1	14	29	7	0·69	+ 0·19	*	*	*	*	
	a Cirencester	49	10th	30	10th, 13th	46·1	34·1	40·3	+ 2·8	11	32	6	0·99	+ 0·46	15·6	+ 5·3	28	+10	Cirencester.
	a Bath	51	10, 11, 14th	32	10th	48·3	38·3	43·5	+ 3·9	26	10	6	0·63	+ 0·08	20·7	—	38	—	Bath.
															20·4	—	*36*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	51	15th	35	13th	47·3	38·1	42·9	+ 4·0	23	11	5	0·43	+ 0·05	21·0	+12·0	38	+22	Kew.
	a Marlborough ..	49	10, 11, 14th	29	10th, 13th	46·2	34·1	40·4	+ 2·8	12	32	5	0·51	- 0·06	15·8	+ 6·8	29	+12	Marlborough.
	a Margate	50	11th, 14th	32	10th	46·6	37·5	42·2	+ 2·8	20	13	4	0·38	0·00	18·5	+ 8·1	34	+15	Margate.
	a Wisley, Surrey ..	51	14th	35	10th, 13th	46·7	37·3	42·2	+ 2·9	21	13	5	0·50	—	20·0	—	36	—	Wisley.
	a Swarraton .. M	50	14th	31	13th	45·6	36·2	41·1	+ 3·4	10	24	5	0·58	0·00	21·5	—	38	—	Worthing.
	a Tunbridge Wells M	48	10, 11, 14th	32	10th, 13th	45·3	35·8	40·7	+ 3·0	9	25	5	0·71	+ 0·11	18·6	+ 8·4	33	+15	Tunbridge Wells.
	a Dungeness	50	11th	28	10th	47·1	36·9	42·2	+ 2·6	23	14	6	0·81	+ 0·39	17·6	—	31	—	Littlestone.
	p Hastings	49	11, 14, 15th	36	10, 12, 13th	47·7	38·4	43·2	+ 3·6	24	10	5	0·98	+ 0·44	*19·4*	*+ 6·2*	*35*	*+11*	*Hastings.*
	p Southampton ..	52	10th	35	10, 13, 16th	48·9	37·8	43·6	+ 3·7	29	12	6	0·68	+ 0·09	19·5	+ 8·2	35	+15	Southampton.
	a Ventnor	52	11th	35	10th	49·8	40·6	45·4	+ 3·3	30	4	7	0·93	+ 0·36	18·7	+ 6·3	33	+11	Ventnor.
LONDON	*a Westminster* ..	*52*	*14th*	*36*	*10th, 13th*	*47·7*	*38·6*	*43·3*	*+ 4·3*	*23*	*10*	*6*	*0·43*	*+ 0·05*	*17·7*	*+14·0*	*32*	*+26*	*Westminster.*
	a Greenwich	*50*	*11th, 14th*	*34*	*13th*	*46·8*	*37·8*	*42·5*	*+ 3·3*	*21*	*12*	*5*	*0·45*	*+ 0·08*	*22·7*	*+14·2*	*41*	*+16*	*Greenwich.*
6.	*p* Laudale	51	10th	26	16th	43·4	32·9	38·4	- 1·8	4	35	7	4·81	+ 2·86	*	*	*	*	
	a Poltalloch .. S	48	13th	28	16th	42·6	34·1	38·5	- 0·8	2	29	7	3·10	+ 2·00	*	*	*	*	
	p Glasgow	49	10th	29	16th	42·7	33·2	38·1	- 0·5	2	32	7	2·30	+ 1·54	2·7	- 1·8	5	- 4	Glasgow.
a, SCOTLAND. W.	*p* Rothesay .. S	49	10th	32	13th, 16th	44·3	34·1	39·4	- 0·3	6	31	7	2·47	+ 1·47	*	*	*	*	
	a Kilmarnock ..	47	14th	27	10th	41·7	32·0	37·0	- 2·9	0	35	7	2·60	—	*5·5*	—	*11*	—	*Kilmarnock.*
	a Colmonell	45	10th, 16th	31	16th	39·9	34·5	37·3	- 2·8	0	33	7	1·55	+ 0·52	*	*	*	*	
	p Dumfries	44	10, 11, 13th	30	13th	41·0	34·8	38·0	- 0·4	0	28	7	2·22	+ 1·43	*	*	*	*	
	p Cally Gatehouse S	46	14th	30	13th	41·7	33·1	37·6	- 0·5	0	31	7	0·91	- 0·13	*	*	*	*	
b, ISLE OF MAN ..	*p* Douglas	49	10th, 11th	33	16th	46·1	36·7	41·6	+ 0·8	11	23	6	0·59	- 0·24	13·0	+ 2·5	25	+ 5	Douglas.
															9·3	—	18	—	Hoylake.
7.	*p* Aspatria	47	15th	31	14th, 16th	43·2	34·2	38·9	+ 0·8	3	30	7	2·20	+ 1·54	5·5	—	11	—	Aspatria.
	p Newton Rigg ..	49	15th	29	16th	42·6	34·1	38·5	+ 1·6	2	29	7	2·29	+ 1·53	6·0	- 2·5	12	- 5	Newton Rigg.
	p Stonyhurst	47	11th	31	13th	44·1	35·3	39·9	+ 1·7	6	26	7	1·37	+ 0·41	7·8	+ 0·8	15	+ 2	Stonyhurst.
a, ENGLAND, N.W.	*p* Blackpool .. M	47	11th, 15th	32	14th, 16th	45·1	36·4	40·9	+ 2·0	9	23	7	0·92	+ 0·30	10·0	+ 2·2	19	+ 4	Blackpool.
	p M'nch'ster, Prestwich	48	11th	32	13th	44·8	35·7	40·4	+ 2·1	8	25	7	1·15	+ 0·42	*7·5*	*+ 3·1*	*14*	*+ 6*	*Prestwich.*
	a Liverpool (Bidston)	49	14th	33	16th	45·3	36·7	41·2	+ 1·2	9	22	6	0·61	+ 0·11	10·3	—	19	—	*Liverpool.*
	a Hawarden Bridge ..	50	10, 11, 14th	34	13, 14, 16th	46·7	36·5	41·8	+ 1·4	13	24	7	0·64	+ 0·24	*9·2*	*+ 0·8*	*17*	*+ 2*	*Southport.*
															7·2	—	*14*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	49	10th, 14th	33	16th	45·1	38·5	41·9	+ 0·4	9	15	7	1·21	+ 0·63	6·0	- 4·0	11	- 8	Llandudno.
	a Holyhead	50	10th	35	16th	46·7	37·9	42·5	+ 0·4	21	11	5	0·79	+ 0·09	5·1	—	9	—	Aberdovey.
	p Bettws-y-Coed ..	51	10th, 11th	31	13th	47·3	37·1	42·4	+ 1·4	23	14	7	2·35	—	3·1	—	6	—	Bettws-y-Coed.
															4·1	—	8	—	Aberystwyth.
8.	*a* Llangammarch Wells	49	10th, 14th	28	10th	46·3	32·6	39·7	+ 2·4	12	38	7	2·18	—	3·5	—	7	—	Llangammarch Wells.
a, SOUTH WALES ..	*a* Pembroke	52	13th	37	16th	49·6	41·1	45·5	+ 2·7	28	3	6	0·96	+ 0·17	13·0	+ 1·6	24	+ 3	Pembroke.
	a Cardiff	50	10, 11, 15th	33	16th	47·8	37·2	42·7	+ 3·1	25	13	7	1·51	+ 0·65	*18·0*	—	*33*	—	*Cardiff.*
															11·5	*- 0·8*	*21*	*- 2*	*Tenby.*
	a Clifton	50	10th, 14th	32	10th	46·8	37·8	42·5	+ 2·5	21	12	6	1·14	+ 0·48	*17·8*	—	*33*	—	*Clifton.*
	a Shaftesbury .. M	48	14th	31	16th	44·9	36·0	40·6	+ 2·8	8	24	6	0·79	+ 0·21	*	*	*	*	
	a Arlington	49	10th	32	16th	46·3	36·6	41·6	+ 2·1	12	23	7	2·43	+ 1·33	13·1	+ 1·6	23	+ 3	Newquay.
b, ENGLAND, S.W.	*a* Cullompton .. M	51	11th, 14th	32	10th	48·1	37·4	43·0	+ 3·2	26	13	7	1·26	+ 0·52	10·8	+ 1·2	19	+ 2	Cullompton.
	a Portland Bill ..	51	10th, 14th	34	15th	49·4	41·7	45·7	+ 3·6	27	1	6	0·58	—	*18·2*	—	*32*	—	*Weymouth.*
	p Plymouth	52	11th, 15th	34	16th	49·8	40·7	45·4	+ 3·1	29	4	7	1·13	+ 0·33	17·2	+ 6·0	30	+11	Plymouth.
	p Falmouth	52	10th	34	16th	49·7	42·2	46·1	+ 2·4	29	0	7	2·01	+ 0·97	13·3	+ 0·7	23	+ 1	Falmouth.
															23·6	*+10·9*	*41*	*+19*	*Torquay.*
9. IRELAND, N.	*a* Malin Head	47	10th, 11th	32	16th	43·6	37·0	40·4	- 0·9	4	19	7	1·22	+ 0·59	*	*	*	*	
a, West.	*a* Blacksod Point ..	51	10th, 16th	31	16th	47·1	37·7	42·6	- 0·2	22	12	7	2·05	+ 0·99	*	*	*	*	
	p Markree Castle ..	51	10th	31	15th	44·9	34·8	40·1	+ 0·5	8	29	7	2·04	+ 1·16	7·0	- 1·7	14	- 3	Markree Castle.
b, East.	*p* Armagh	49	10th	29	16th	43·5	34·0	38·9	- 0·7	4	30	7	1·23	+ 0·65	8·9	- 0·8	17	- 2	Armagh.
	a Donaghadee	48	10th	29	16th	43·4	33·9	38·8	- 1·8	4	30	7	0·51	- 0·09	*	*	*	*	
10. IRELAND, S.	*p* Dublin, City	51	10th, 11th	32	16th	46·4	37·7	42·2	+ 0·6	19	12	6	0·57	+ 0·08	9·2	- 3·4	17	- 6	Phœnix Park.
a, East.	*a* Kilkenny	51	10th	30	16th	46·7	36·1	41·6	+ 1·3	13	25	7	1·01	+ 0·24	*	*	*	*	
	a Waterford	51	10th, 11th	30	16th	48·9	37·6	43·5	+ 2·1	29	12	6	0·76	- 0·14	*	*	*	*	
b, West.	*a* Birr Castle	52	10th	31	16th	45·6	36·0	41·0	+ 1·3	10	25	7	1·42	+ 0·76	5·9	- 5·1	11	- 10	Birr Castle.
	a Foynes	52	10th	31	16th	48·2	37·5	43·1	+ 0·9	27	18	7	2·14	+ 1·28	*	*	*	*	
	a Cahir .. .. M	52	10th	30	16th	47·0	36·2	41·8	+ 0·4	14	25	7	1·63	—	*	*	*	*	
	a Killarney	53	10th	32	16th	49·1	38·4	44·0	+ 1·5	29	10	7	1·73	+ 0·28	*	*	*	*	
	a Valencia	53	10th	34	16th	49·9	41·3	45·8	+ 1·0	30	2	7	1·25	- 0·05	1·3	- 9·5	2	- 18	Valencia.
	a Roche's Point ..	53	10th	34	16th	48·9	39·3	44·3	+ 0·7	27	8	7	0·54	- 0·53	7·0	—	13	—	Ballinacurra.
11. ENGLISH CHANNEL	*a* Scilly, St. Mary's ..	52	10th, 14th	41	16th	50·3	45·1	47·8	+ 1·7	41	0	7	1·74	+ 1·00	9·8	- 2·9	17	- 5	Scilly.
	a Jersey, St. Aubins ..	52	11, 13, 14th	39	10th	50·6	43·7	47·3	+ 4·5	37	0	7	1·75	+ 1·02	7·8	- 6·7	13	-12	St. Heliers.
	a Guernsey	53	10th	40	16th	50·7	44·5	47·7	+ 4·0	40	0	7	1·76	+ 0·96	10·8	- 0·1	19	0	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 19·8 hrs.* (+ *8·2 hrs.*), *35 %* (*+15 %*); *Bournemouth, 21·8 hrs., 39 %*; *Bognor, 21·5 hrs., 38 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	— —				
	— —				
	— —				
1.	Aberdeen	—	—	—	40·2
	Crathes	6	9	35·7	39·4
	Balmoral	7	12	—	—
	West Linton	7	16	—	—
	Marchmont	5	25	36·0	—
2.	Cockle Park	7	19	36·1	39·9
	Durham	4	27	—	—
	York	—	—	39·2	42·8
	Hull	0	31	37·9	44·4
	Lincoln	—	—	37·4	42·9
	Rauceby	5	27	38·3	43·8
3.	Norwich	4	22	—	—
	Yarmouth	—	—	38·1	43·6
	Lowestoft	3	26	38·1	42·6
	Cambridge	3	27	38·8	43·6
	Clacton-on-Sea	3	21	40·2	45·4
	Southend	5	26	39·6	—
	Tottenham	0	31	—	44·8
4.	Harrogate	3	28	39·1	41·1
	Huddersfield	2	27	38·1	42·4
	Buxton	4	24	38·2	43·1
	Sheffield	2	25	38·4	42·9
	Nottingham	3	26	37·6	41·0
	Birmingham	5	24	40·7	45·1
	Oxford	2	26	—	—
	Hereford	5	23	—	—
	Cirencester	3	29	—	—
5.	Margate	1	28	40·3	42·9
	Greenwich	2	29	—	—
	Westminster	2	28	—	—
	Kew	3	27	40·2	44·5
	Canterbury	4	25	40·7	45·3
	Tunbridge Wells	3	23	39·3	—
	Wisley	1	28	40·5	44·1
	Worthing	2	28	41·4	45·1
	Portsmouth	2	28	43·3	46·2
6.	Glasgow	4	28	—	—
	Rothesay	—	—	—	43·8
	Colmonel	0	31	—	—
	Dumfries	3	23	—	—
	Douglas	5	27	—	—
7.	Aspatria	2	29	—	—
	Newton Rigg	3	29	38·0	41·1
	Burnley	5	24	37·9	42·3
	Southport	1	30	38·8	42·2
	Manchester City	1	29	38·6	43·7
	Bettws-y-Coed	1	28	41·3	45·0
8.	Llangammarch Wells	7	21	41·3	45·8
	Cardiff	2	30	41·6	45·2
	Clifton	1	28	—	—
	Bath	—	—	42·1	46·9
	Plymouth	—	—	44·6	—
9.	Armagh	3	28	40·7	45·0
	Markree	3	26	—	—
10.	Dublin, Trin. Coll.	2	27	42·1	45·6
11.	Guernsey, Brooklyn	0	33	45·9	47·7

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	44	43	43·6
	Kirkwall	42	38	39·8
	Wick	46	45	45·4
SCOTLAND, E.	Cromarty	44	41	42·6
	Pennan Bay	40	38	39·5
	Aberdeen, Cove Bay	36	35	35·5
ENGLAND, N.E.	Burnmouth, Berwick	44	40	41·7
	Scarborough	41	39	40·3
ENGLAND, E.	Shipwash Lightship	42	41	41·4
	Margate	41	37	40·0
ENGLAND, S.E.	Eastbourne‡	44	41	43·1
SCOTLAND, W.	Lamlash	47	42	44·6
	Ballantrae	44	41	43·0
ENGLAND, N.W.	Port Erin	47	45	45·9
ENGLAND, S.W.	Newquay	49	48	49·0
	Plymouth‡	50	49	49·7
	Salcombe	49	47	48·4
IRELAND, N.W.	Sheephaven	47	45	45·6
	Teelin	48	41	44·7
IRELAND, S.W.	Cleggan	45	41	43·6
	Seafield	49	45	47·6
IRELAND, E.				

‡ Only one observation each day.

VII.—*Continued* from p. 24.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees from North through East) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
12	Jan. 14th, 3.48 p.m. to 4.55 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity Wind	76·0° 93% 207°, 6	75·1° 93% 205°, 9	74·7° 93% 204°, 11	**72·0°** 100% 213°, 16				**71·4°** 100% 225°, 17	1,200	Dull, overcast, some rain. Strong wind early, steadily decreasing. Nimbus clouds at 850 metres.
13	Jan. 15th, 12.2 p.m. to 12.40 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity Wind	77·5° 75% 225°, 6	77° 75% 225°, 12	75° 60% 235°, 16					73·5° 60% 235°, 17	850	Clear. Very steady wind.
14	Jan. 15th, 10.25 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity Wind	74·5° 90% 230°, 9	74° 85% 240°, 15	**73°** 80% 250°, 18	**71·5°** 75% 260°, 18				**70°** 70% 260°, 20	1,240	Clear. Kite broke away with 1,100 m. wire when coming in. Wind 25 m.p.s. It fell 2 minutes later 4 kms., 67°.
15	Jan. 15th, 11.20 am. to 12.44 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity Wind	74·8° 86% 225°, 8	74·2° 87% 238°, 11	74·0° 87% 245°, 12	**70·5°** 91% 270°, 17	**67·0** 91% 290°, 18			**67·0°** 90% 292°, 18	1,510	Fine, bright, sunny intervals. Moderate to fresh breeze, steady. Cu. clouds at 1,200 metres.
16	Jan. 16th, 11.0 a.m. to 11.55 a.m.	Brighton, 115 m.	Temperature Humidity Wind	77° 75% 245°, 13		**73°** 90% ? 18					**73°** 90% ? 18	550	Cu.-str. and a few cu. Wind direction doubtful as the kite did not fly true.
17	Jan. 16th, 12.58 p.m. to 1.53 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity Wind	**73·0°** 90% 247°, 3	**72·3** 93% 247°, 11	**71·6°** 96% 247°, 13	**68·7°** 100% 259°, 21				**68·5°** 100% 259°, 21	1,020	Very changeable weather, snow at times, cold. Moderate wind in morning, strong later. Lower clouds at 430 metres.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS. (*See* p. 24.)

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
No. of Kites	3	2	—	1	1	—	2	1	1	1	1	1	1	1	1	1	1
Area of Surface (sq. metres)	11	11	—	×6·5	4	—	6·5	6·5	7	6·8	4	7·4	4	4	7·4	5	6·5
Capacity of Balloon (cub. metres)	—	—	?	—	—	?	—	—	—	—	—	—	—	—	—	—	—
Length of Wire (metres)	2,750	2,800	—	1,220	1,340	—	2,000	2,130	1,730	2,440	1,220	1,520	1,000	1,500	1,980	1,220	1,370

18.—Jan. 13th. Aldershot. Balloon at about 300 m. from 10.0 a.m. to 2.0 p.m. Temp. rose 4°C. Wind 135° early, changing to 250° later.

19.—Brighton. Jan. 13th. 10.20 a.m. and 1.0 p.m. to 1.50 p.m. Wind 100° at 10.20 a.m.; 268° at 1.0 p.m. Kite dived to ground at 1.54 p.m. Record lost.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

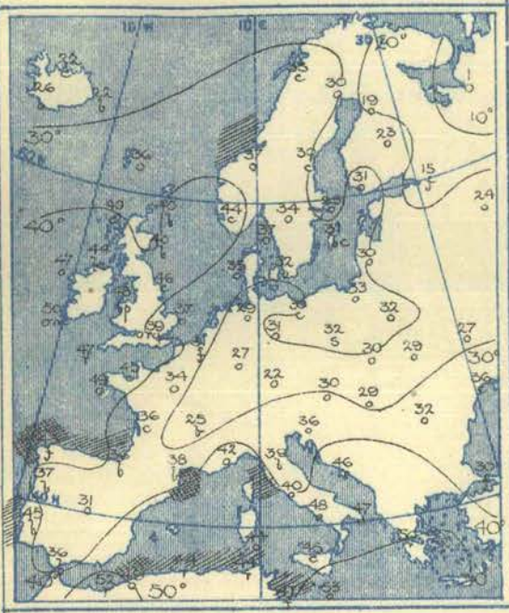
ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = [2]73°, Normal boiling point of water = [3]73°). The figure in the "hundreds" place [2] is not printed in the tables. Values at or below the freezing point of water (73°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7.

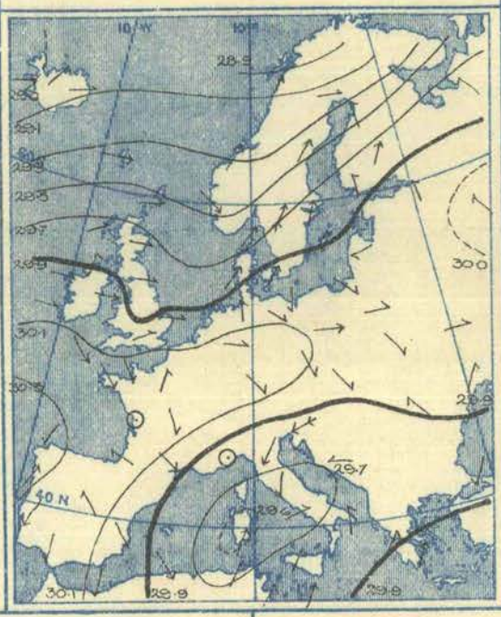
See also p. 4.

Sunday, 10th January, 1909.

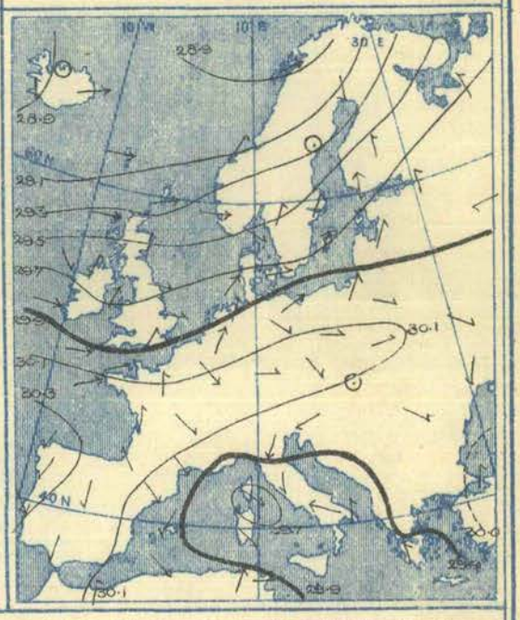
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in several parts of these Islands, as well as at La Calle, Lesina, and in Greece, and snow falling at Breslau and Helsingfors. Overcast in many other regions, but sky clear in Portugal and the southern districts of Spain and France. More or less rain later in these Islands and the western and north-western countries of the Continent, and rather large quantities in southern Italy, Greece, and at Malta. Considerable amounts of snow in Russia.

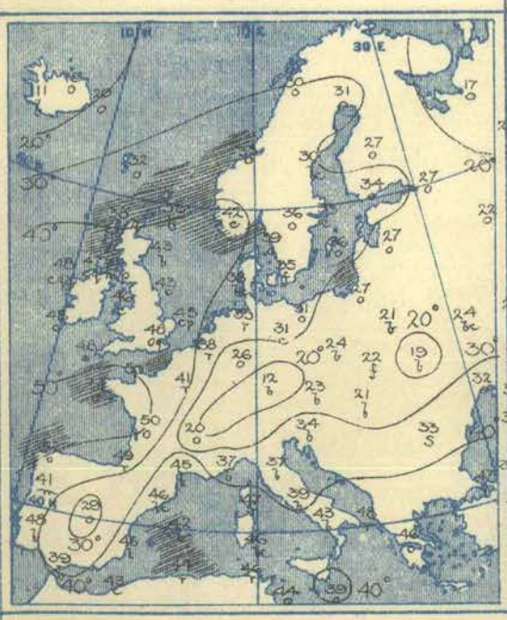
Temperature risen over the United Kingdom, Denmark and Scandinavia, fallen in most other places. Morning readings about 50° in the south-west of Ireland, at Malta, and in Greece, below 32° over the greater portion of the mainland of the Continent, and below 10° in the north of Russia. Rising to 50° later in several parts of England, Ireland, Brittany, the south of Italy and Algeria, and to above 55° in Greece. Thermometer remaining below 32° in various parts of central Europe and the east of France, and only touching 41° at Cape Sicié.

Wind in morning moderate from the Westward in these Islands, and moderate to strong from the South-Westward over Denmark and Scandinavia. A cyclonic circulation of varying strength prevailing over the Mediterranean; North-Westerly current blowing a gale at Cape Sicié. Light and rather variable anticyclonic breezes general over the central countries, Russia, and also the Bay of Biscay. Not much change later in day; wind backing somewhat over England. Gale subsiding at Cape Sicié.

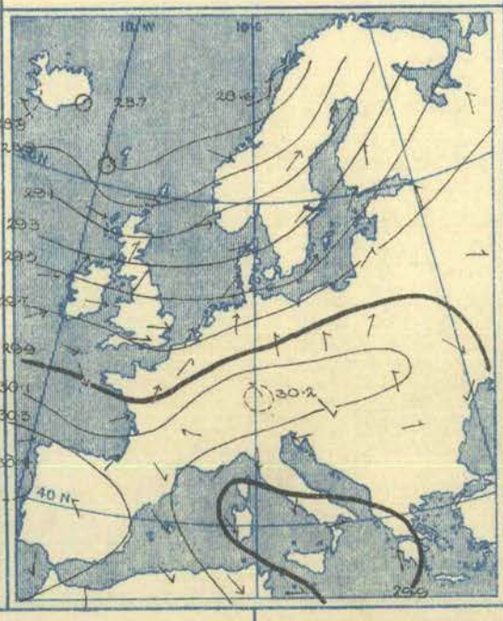
Barometer in morning ranging from above 30·3 ins. over the north-west of Spain, and above 30·1 ins. in a band extending thence and covering central Europe to below 29·6 ins. in a large depression having its minimum over Sardinia, and to below 29·0 ins. both in the far north of Norway and in the west of Iceland. Pressure giving way briskly over this country during day and slightly in Iceland. A shallow secondary disturbance travelling eastwards across Wales and England.

Monday, 11th January, 1909.

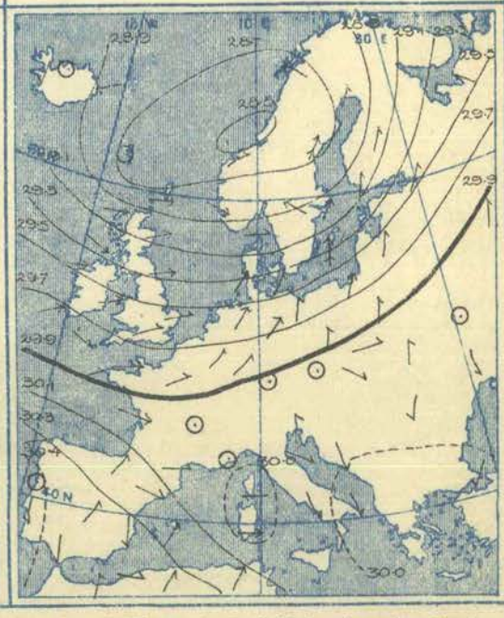
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast over the greater part of our area, but fine and bright over a considerable portion of southern, and at some stations in central, Europe. Rainy in the north of these Islands, various parts of France and the Low Countries, and at Cagliari, Brindisi, Algiers and Constantinople, and snow falling at Hermanstadt and Helsingfors. Slight rain later in most parts of this country and heavier amounts in France and Norway, as well as at Corunna. Very large quantities of snow in Finland.

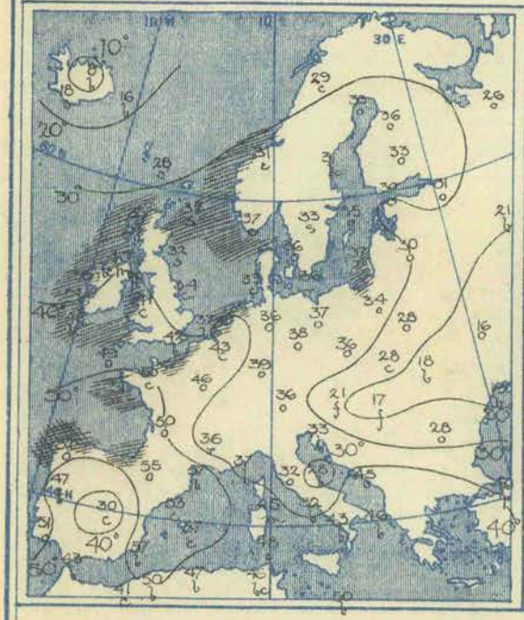
Temperature showing no decided or general change. Morning readings above 45° in most parts of England and Ireland, but below 30° over most of the mainland of Europe, and below 20° in places. Above 45° at some stations in the far south of our area, and as high as 52° at Corunna. Maxima during day about 50° in England and Ireland and a large portion of France, as well as in the south of Italy, and rather higher in Algeria. Thermometer remaining below 32° in some Austrian localities, and rising very little above it in Germany and eastern France.

Wind in morning moderate to strong from the Westward or South-Westward over these Islands and the north-western regions of the Continent. Calms prevailing in Iceland, and a moderate or light cyclonic circulation over Italy and its vicinity. Increasing to a gale later in several parts of Scandinavia and over the northern regions of the Baltic, and veering somewhat and continuing strong or high on our own north-west coasts.

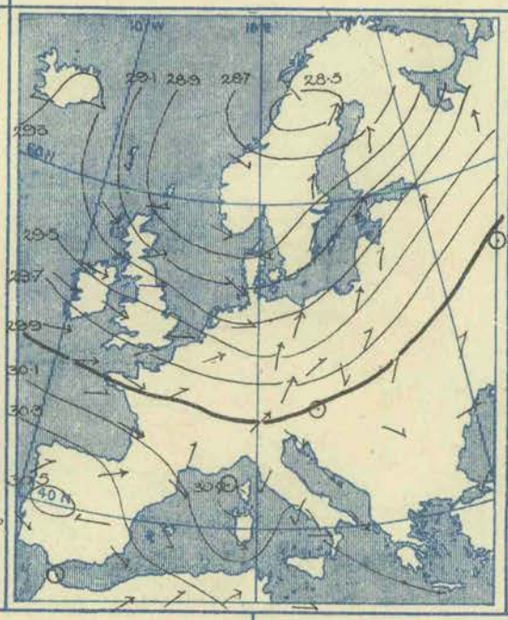
Barometer in morning ranging from above 30·3 ins. in the Spanish Peninsula, and above 30·1 ins. in a band extending thence across central Europe to Poland, to less than 29·9 ins. in a depression over the south-east of our area, and to less than 28·6 ins. off the north-west of Norway. Pressure giving way briskly later over Scandinavia, and the centre of a large and deep depression appearing near Christiansund. Barometric fall extending to central Europe. An increase of pressure taking place in Iceland.

Tuesday, 12th January, 1909.

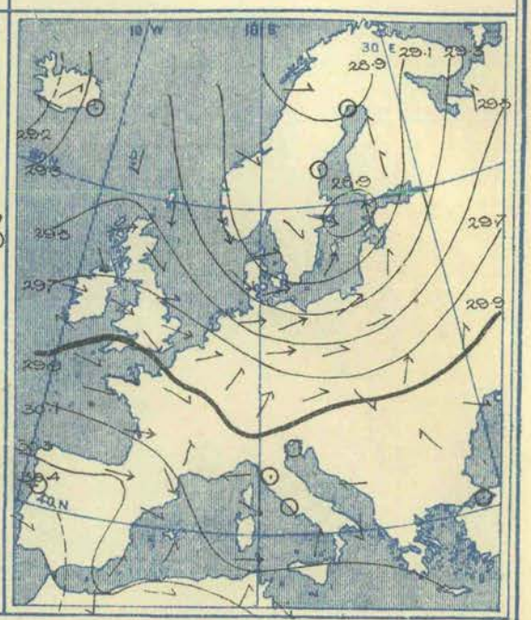
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rough and unsettled over these Islands and northern and north-western Europe generally, with snow in Scotland and showers or steady rain in some parts of Ireland, England and the Baltic region. Fair or fine over most southern districts, but rain falling at Lyons and also at Constantinople. More or less precipitation later over this country and in most places on the Continent; about half an inch at Scilly, Jersey, at several French stations, and at Rome.

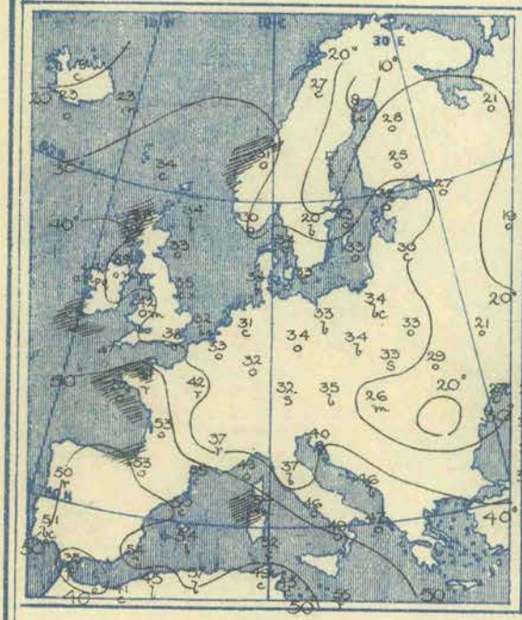
Temperature fallen over most of the United Kingdom and the north of Europe, risen in most other localities. Morning readings ranging from 57° at Palma and Perpignan to below 40° over the Continent as a whole, and to much below 32° over Austria and Russia. Maxima during day less than 40° in parts of Scotland, and not much above that value in some English and Irish localities. Frost continuing all day in some districts of central Europe, but thermometer rising to above 50° in the far south, and to 61° at Algiers.

Wind in morning showing a very extensive cyclonic circulation over the northern half of the Continent and a smaller movement over the Mediterranean. Westerly current strong to a gale over these Islands, the North Sea, and the Baltic. Decreasing in force over this country later in day, and backing towards South and South-East in Ireland. A fresh to strong gale from North-West continuing on the eastern shores of the North Sea.

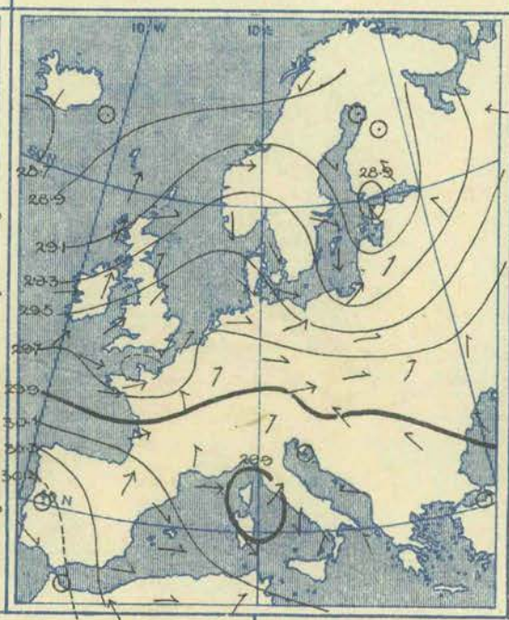
Barometer in morning about 30·5 ins. in Portugal; below 30·0 ins. in a depression over Corsica and its vicinity, and below 28·5 ins. in a large and deep system having its minimum over the north of Scandinavia. Another large and deep depression advancing on Iceland later and a small secondary disturbance travelling very quickly from the Atlantic to the English Channel during night. Gradient over these Islands becoming less steep during day, but subsequently increasing again quickly

Wednesday, 13th January, 1909.

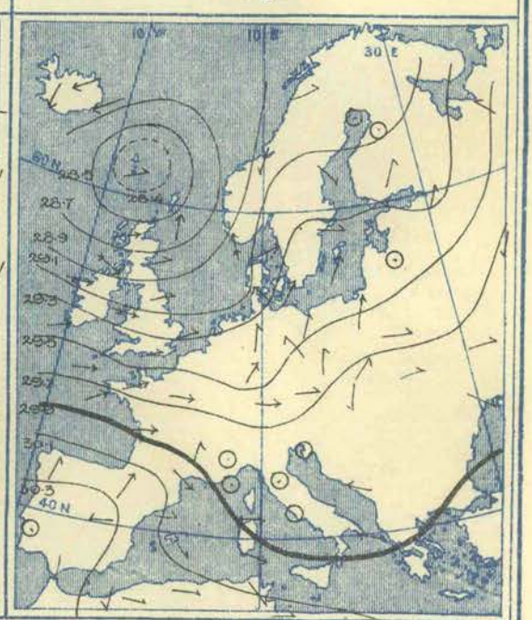
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast in most regions except in Algeria. Rain falling at many of our own stations, in the north of France, and at Oporto and Malta, and snow in some parts of central Europe and Finland. Rain experienced later in this country generally, and rain or snow in most Continental localities, but quantities not large. Aurora seen at night at Wick.

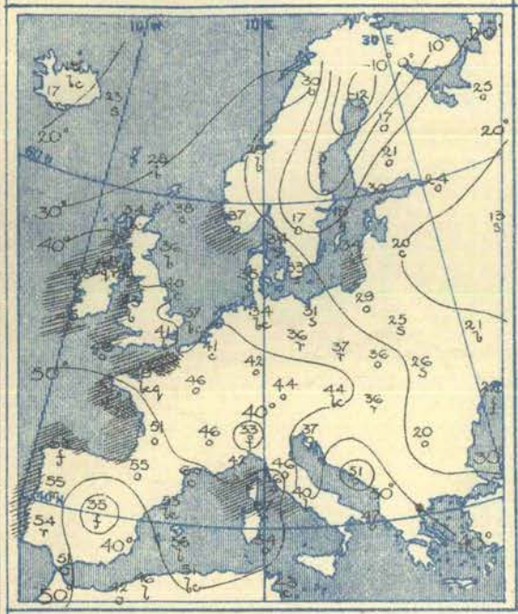
Temperature risen in some parts of central Europe and Italy, fallen or changed irregularly elsewhere. Morning readings above 50° at some stations in the far south and on the west coast of France, but below 40° generally, and much lower in Russia, Transylvania, and the north of Sweden. Lowest value 8° at Haparanda. Maxima during day about 40° over a considerable portion of Great Britain, but 50° on our south-west coasts. Thermometer remaining below 40° over the central countries, and only touching 33° at Turin, but rising to about 60° in some parts of Algeria.

Wind in morning cyclonic very generally. A small circulation prevailing over the south of this country and the Channel, and larger systems both in the south and north of the Continent. South-Westerly current strong on our west and north-west coasts, a gale from the Westward prevailing at Lorient, and also on the north coast of Germany. Light to strong winds general over the Mediterranean. Increasing to a gale from the Westward in most parts of these Islands by evening, and to a strong gale from the Southward at Skudesnaes.

Barometer in morning above 30·4 ins. in Portugal; below 29·9 ins. in a depression over the Gulf of Genoa and its vicinity, less than 29·6 ins. in another disturbance over the English Channel, below 28·9 ins. in a small minimum over Finland, and below 28·7 ins. to the south-westward of Iceland. A very deep depression appearing over the Faröes during day, and barometer falling to 28·32 ins. at Thorshavn. Channel disturbance apparently travelling away to Germany and becoming less well-defined. Gradient growing very steep between Norway and Shetland, and steep over most parts of the United Kingdom.

Thursday, 14th January, 1909

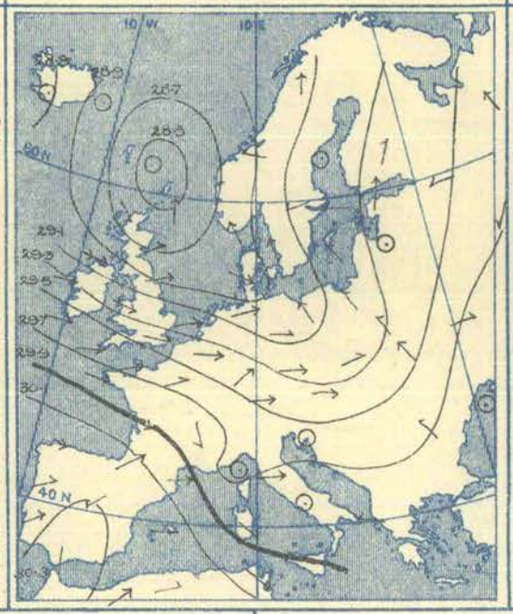
Temperature and Weather. 7 a.m.

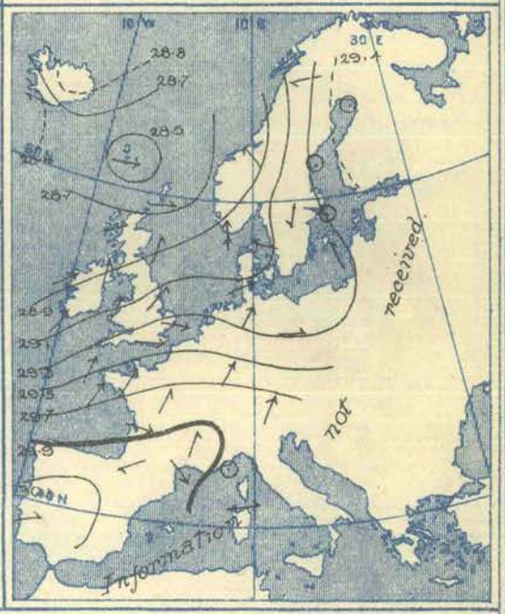


Weather in morning very rough and unsettled over this country and north-western Europe generally. Sky clear in several places, but rain falling in others, and hail showers on our most north-western coasts. Rain also reported in some parts of central Europe, in Portugal, and at Sanguinaire, and snow in Poland and at Moscow. Fine and bright over a considerable portion of the Mediterranean region. Snow showers in Scotland later, and rain in Ireland and England, as well as over the western countries of the Continent.

Temperature risen somewhat in most parts of these Islands and central Europe, fallen in most other regions. Readings in morning above 50° along the west coast of France, in Portugal, and over the western portion of the Mediterranean, and as high as 60° at Perpignan. Below 40° at many of our own stations, and below 30° over the eastern half of the Continent. Thermometer subsequently rising to about 50° in various parts of England and Ireland, but remaining below 40° in northern Scotland. Frost continuing all day in Scandinavia. Maxima above 50° in the far south of our area, and 63° at Perpignan.

Barometer and Wind. 7 a.m. and 6 p.m.



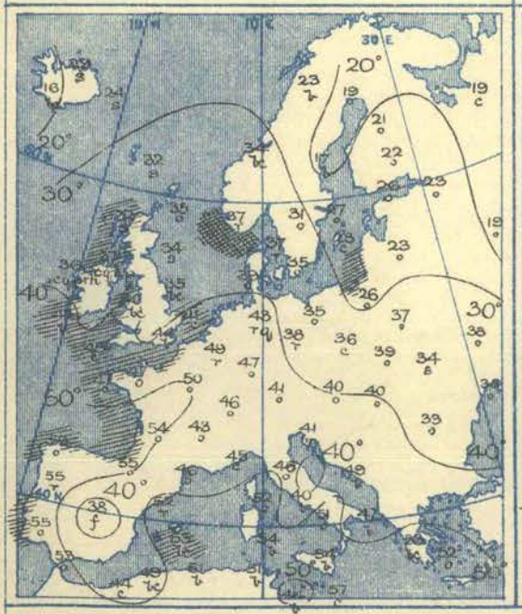


Wind in morning showing a very extensive cyclonic circulation over this country and its neighbourhood. North-Westerly to Westerly current strong to a gale on our own coasts and in the north of France, and that from South-East strong beyond the North Sea. Light and rather variable airs prevailing in Russia, and a light to fresh breeze from North-West on most shores of the Mediterranean. Backing towards South-West later over this country, and blowing very strongly or with gale force during evening or in night.

Barometer in morning above 30·3 ins. in the central parts of Spain; below 28·5 ins. in a large and deep cyclonic system off the north of Scotland, and relatively low in a secondary over the North Sea and North Germany. Northern disturbance moving Northwards very slowly later and increasing somewhat in depth, and another depression of a secondary character travelling rapidly from the Atlantic across the north-west and north of these Islands during night. A fresh fall of the mercury taking place in Iceland.

Friday, 15th January, 1909.

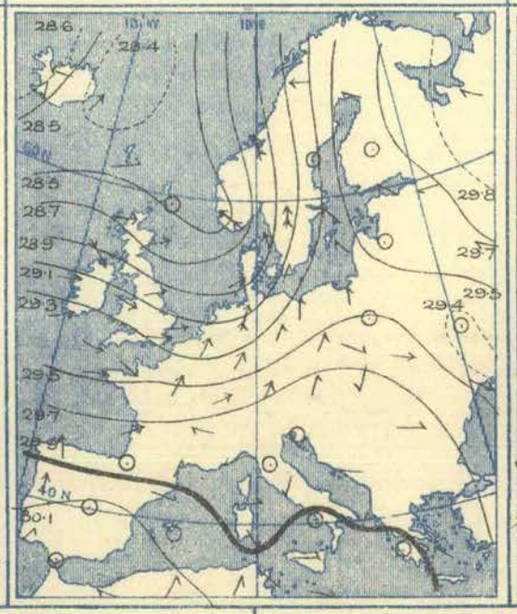
Temperature and Weather. 7 a.m.

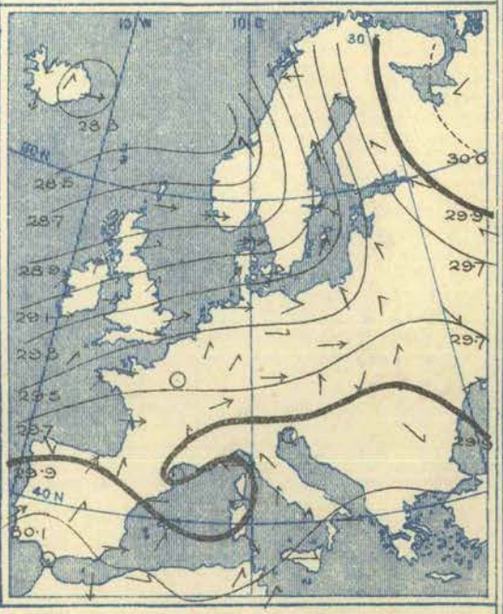


Weather in morning rough and changeable throughout the United Kingdom and north-western Europe generally, with snow in Scotland, rain in several localites, and very little cloud in others. Mostly fair or fine and bright in the southern countries, but rainy at Oporto and Barcelona. Thunderstorms in several parts of England later, and rain or snow over the country generally. More or less rain falling over a large portion of the Continent, largest measurements about 0·6 in. at Lisbon and Oporto.

Temperature fallen over these Islands, changed irregularly or risen in most other regions. Morning readings very little above 32° in Scotland, and much below it in the north-east and north of our area. Above 50° at a few stations in the south, but some decrees lower both at Nemours and Sfax. Maxima during day below 35° in some parts of Scotland, and only 36° at Birr Castle. Maxima rather higher than of late in France and Italy; 63° at Biarritz, 57° at Rome, and 65° at Palermo. Thermometer remaining below 50° in Austria and at nearly all the German stations.

Barometer and Wind. 7 a.m. and 6 p.m.



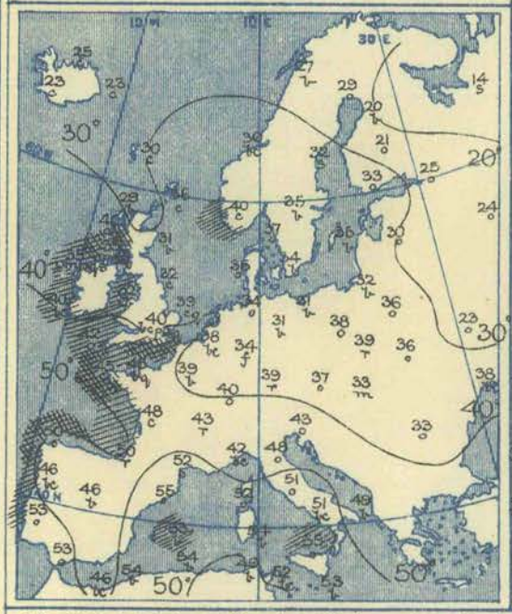


Wind in morning fresh or strong to a gale from between West and North-West over these Islands and France, and strong to a gale from the Southward beyond the North Sea. Light or moderate breezes from the Westward prevailing over the Mediterranean. Decreasing somewhat in force during day in these Islands, and backing towards South-West. Gale continuing throughout the day beyond the North Sea, but from West in Denmark.

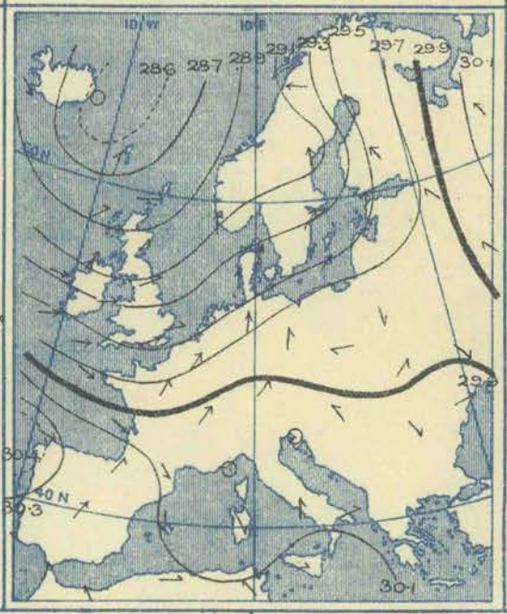
Barometer in morning above 30·1 ins. in the south-west of our area; below 28·4 ins. in a very large depression having its minimum to the eastward of Iceland, and relatively low in a secondary off the south-west of Norway. Gradient very steep over Scandinavia, Denmark, and the southern half of the North Sea. Little change in the general disposition of pressure later in day; a fresh fall setting in on our west and south-west coasts, and gradient decreasing over these Islands.

Saturday, 16th January, 1909.

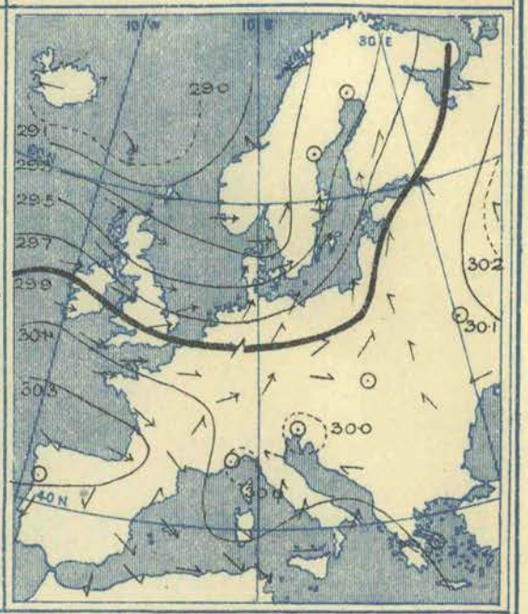
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning squally and unsettled over these Islands and the surrounding regions, with snow in the north of Ireland and rain or passing showers in several other localities. Rain also falling in the south-west of France and at Cracow, and snow at Hernösand and Archangel. Snow or sleet later in the north of these Islands, and rain in several southern districts, as well as over the nearer regions of the Continent. Amounts not large generally, but 0·5 in. measured at Stornoway and 1·5 at Brussels. Thunderstorms occurring in some parts of this country.

Temperature fallen over the United Kingdom, France, and Germany, risen in Scandinavia. Morning readings above 50° at some of the most southern stations, but below 40° over our area as a whole, and below 32° in Scotland, Russia, Finland, and northern Scandinavia. Subsequently rising to 51° on the west coast of Ireland, but remaining below 40° in the north-east and north of Great Britain, as well as in large tracts in central Europe. Maxima above 60° at a few places in the far south, and as high as 59° at Leghorn.

Wind in morning fresh to a gale from the Westward over these Islands and the north of France, and from the Southward on the eastern shores of the North Sea, and over Scandinavia. Cyclonic winds of little strength prevailing over the Mediterranean and Italy. Not much change in direction later in day, but a considerable decrease in force over the United Kingdom and its vicinity, as well as beyond the North Sea. Backing towards South and increasing on our west coasts during night.

Barometer in morning above 30·4 ins. in the north-west of Spain and the adjacent portion of the ocean, and relatively high in the north-east of our area. Below 28·6 ins. in a very large depression having its minimum to the eastward of Iceland, and below 30·0 ins. in a shallow system over Sardinia and Corsica. Main depression decreasing in intensity during day, and barometer rising quickly in this country. A brisk fall setting in during the early morning on our west and north-west coasts, and gradients again becoming steep.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees from North through East) and Velocity (Metres per Second). (*See* also p. 20.)

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1909.												
1	Jan. 10th, 10.15 a.m. to 12.40 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	79° 95% 270°, 4	78·5° 95% —, 10	78° 95% 290°, 12	77° 95% —, 12				76° 95% 270°, 12	1,300	Station in cloud. Kite not seen above 100 m.
2	Jan. 11th, 9.40 a.m. to 11.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	81° 95% 250°, 5	80·5° 90% 260°, 15	79° 100% 270°, 16	78° 100% 260°, 16	78° 30% 270°, 18			78° 30% 270°, 18	1,530	Thick fog at starting, then clear to cloudy. Clouds at all heights. Wind very variable.
3	Jan. 11th, 10.45 a.m. to 12.15 p.m.	Aldershot.	Temperature Humidity .. Wind	82° 100% 250°, —	82° 100%	80° 100% —, 18	75?° 100% —, 18				75?° 100% 290°, 18	1,000	Cloudy, dull, sunny intervals at mid-day. Very gusty. Kite broke away about 12.15 p.m.
4	Jan. 11th, 12.44 p.m. to 1.40 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	78·6° 80% 259°, 8	77·5° 83% 248°, 10	77·0° 88% 245°, 11	73·0° 97% 245°, 17				71·0° 100% 247°, 19	1,220	Overcast, occasional showers. Fresh wind, gusty. Lower cu. clouds at 900 metres.
5	Jan. 12th, 9.50 a.m. to 10.50 a.m. and 12.10 p.m. to 12.37 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	80° 80% 250°, 6	79° 80% 260°, 9	75° 90% 270°, 18	? 100% 280°, 19				72° ? 280°, 19	1,150	Clouds at various heights, and moving in various directions between 270° and 300°. Wind very irregular. Passing clouds.
6	Jan. 12th, 10.0 a.m. to 3.0 p.m.	Aldershot.	Temperature Humidity .. Wind	77·5° 100% 270°, —		75° 100% 290°, 17					75° 100% 290°, 17	500	Kite at about 500 metres for 5 hours. Temp. rose 3° during this time. Fine, sunny, occasional clouds.
7	Jan. 12th, 11.0 a.m. to 12.0 a.m. and 1.30 p.m. to 3.40 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	78·5° 90% 280°, 4	78·5° 95% 280°, 10	76° 100% 280°, 16	72° 95% 270°, 17				72° 95% 270°, 17	1,000	Almost overcast. Cu.-str. to clear sky. No clouds reached. Wind gusty.
8	Jan. 12th, 11.23 a.m. to 11.31 a.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	73·0° 91% 270°, 9	72·3° 90% 270°, 11	72·0° 90% 270°, 13	68·0° 86% 274°, 19				65° 85% 281°, 20	1,400	Overcast, snow showers, cold. Fresh to strong wind, gusty. Cu. clouds at 1,100 metres.
9	Jan. 13th, 10.15 a.m. to 11.10 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	76° 100% 110°, 4	76° 100% 160°, 11	77° 100% 200°, 14	? 100% 225°, 19				? 100% 245°, 16	1,200	Wind dropped on surface and changed from 110° to 270° during ascent. Thick fog. Clock stopped.
10	Jan. 13th, 12.44 p.m. to 1.40 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	74·7° 95% 191°, 9	74·5° 96% 194°, 11	74·0° 97% 198°, 12	72·5° 100% 202°, 18	70·4° 100% 212°, 21			70·3° 100% 213°, 22	1,520	Dull, overcast, snow showers early, heavy rain later. Nimbus clouds at 600 metres.
11	Jan. 14th, 10.11 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	79·5° 80% 250°, 9	79° 80% 260°, 14	77° 85% 270°, 18	73° 90% 280°, 22				72·5° 90% 280°, 22	1,120	Clear day, cirrus. Very steady wind.

63, Victoria Street, London, S.W. *January 20th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 3. THIRD WEEK, ENDING SATURDAY, JANUARY 23RD, 1909. *[Price 6d. Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather.—Very heavy rain occurred in Scotland and the north of Ireland at the beginning of the period, while small quantities were experienced in nearly all other parts of the Kingdom. Later in the period the general condition became much drier and generally fair or fine, but rain in small amounts was not uncommon in the extreme north and north-west.

Temperature was below the average generally, the greatest divergence from the normal being more than 3° in England S.W. In the north and east of Scotland and the north of Ireland, however, the week was mild for the time of the year. The highest of the maxima were recorded on the 16th or 17th, and ranged from 54° in Ireland N. to 50° in England E. and Scotland N. Late in the week the maxima in several parts of England were about 35°. The lowest of the minima which occurred over England late in the week, varied from 21° in the Midland Counties and England S.W. and 22° in Scotland E. to 29° in Ireland N. and to 34° in the English Channel. The lowest temperatures on the grass were 9° at Llangammarch Wells (on the 22nd), 16° at Birmingham, 19° at Crathes, Balmoral, Greenwich, and Kew, and 20° at Buxton, Burnley, and Tunbridge Wells.

Mean Temperature of the Sea.—At most of the stations except those on the north and east coasts of Scotland the water was warmer than during the corresponding week of last year. The mean values for the week ranged from above 48° at Plymouth and Salcombe, and nearly 48° at Newquay, to below 40° at some places on the north-east coast of Britain, the lowest figure being 36°·4 at Aberdeen.

Rainfall exceeded the normal in Scotland and in Ireland N., but was less elsewhere, the fall being very slight over the greater part of England. Several stations in Scotland, as well as Markree Castle, had a fall of more than an inch on Sunday, the largest measurements being 2·5 ins. at Fort William, and 1·8 in. at Crieff and Glencarron.

Bright Sunshine varied a good deal in different parts of the Kingdom. In Wales, the western parts of England, the English Channel and Ireland S., it was very prevalent, and slightly exceeded the normal in several other parts of England, while in Scotland N. and E. and Ireland N. there was a deficiency. The percentage of the possible duration ranged from 39 in England S.W. and 34 in the English Channel to 14 in Ireland N. and to 6 in Scotland N.

Barometer and Wind.—Early in the week a very large cyclonic system extended over these Islands from the Icelandic region, and the Southerly and South-Westerly wind current prevailing over the United Kingdom was strong to a gale in force. After Monday, however, an anticyclone appeared off our south-west coasts, and this system, moving gradually across England to the Continent, eventually assumed the form of a zone of high pressure extending from the Baltic to Ireland. The wind consequently shifted to between East and North-East over the southern half of the Kingdom, and although it continued mainly Southerly or South-Westerly in the north-west and north, it decreased in strength to a light or moderate breeze.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 28.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1 Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Deficient	Deficient
	Rainfall ...	Moderate	Moderate	Very light	Light	Light	Light	Moderate	Light	Light	Moderate	Moderate	Light
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Very abundant	Very abundant	Moderate	Abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1908–9. 8 weeks from Nov. 29th, 1908.	Warmth ...	3 * 1	3 * 0	2 * 2	3 * 1	2 * 1	3 * 1	3 * 0	3 * 1	4 * 2	4 * 0	3 * 1	4 * 1
	Rainfall ...	2 * 1	1 * 3	0 * 3	2 * 4	2 * 3	3 * 4	3 * 0	1 * 3	3 * 4	2 * 1	3 * 2	4 * 4
	Sunshine ...	3 * 2	4 * 1	1 * 2	1 * 4	2 * 4	1 * 3	3 * 2	4 * 1	2 * 2	3 * 2	1 * 4	2 * 3

PAST SEASONS.

WINTER, 1907–8. Dec. 1st–Feb. 29th. 13 weeks.	Warmth ...	4 * 2	4 * 1	3 * 4	4 * 3	4 * 3	5 * 4	5 * 3	4 * 4	3 * 3	5 * 3	5 * 3	4 * 2
	Rainfall ...	4 * 4	6 * 5	4 * 6	5 * 5	4 * 8	3 * 7	7 * 3	8 * 4	3 * 4	6 * 3	2 * 3	4 * 5
	Sunshine ...	4 * 3	5 * 1	3 * 2	5 * 5	3 * 4	6 * 2	1 * 3	6 * 2	3 * 3	3 * 4	3 * 3	2 * 3
SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2

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TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5.)

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRD WEEK—January 17th to 23rd, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	*	*	*	*	*	*	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	50	25	44·3	35·1	39·9	+ 1·0	6	− 1	27	− 5	5	0	1·59	+0·05	3	− 2	6	− 5
Eastern																		
1. SCOTLAND, EAST	52	22	43·9	32·7	38·5	+ 0·4	5	− 3	35	− 2	3	− 1	0·68	+0·10	9	− 1	17	− 2
2. ENGLAND, N.E.	52	23	43·0	32·6	38·0	− 0·9	3	− 5	35	+ 3	2	− 1	0·05	−0·35	12	+ 2	22	+ 4
3. ENGLAND, EAST	50	26	42·0	33·2	37·8	− 0·3	0	− 8	29	− 8	3	0	0·06	−0·30	11	0	20	0
4. MIDLAND COUNTIES	52	21	42·0	32·0	37·2	− 1·1	0	− 10	34	− 2	2	− 1	0·12	−0·32	11	+ 1	20	+ 2
5. ENGLAND, S.E.	52	25	42·3	34·0	38·3	− 1·5	1	− 10	29	+ 1	2	− 2	0·09	−0·40	14	+ 3	23	+ 5
Western																		
6. SCOTLAND, WEST	52	30	44·3	35·8	40·2	− 0·1	6	− 5	24	0	5	+ 1	1·10	+0·04	8	0	15	0
7. ENGLAND, N.W.	53	26	42·7	34·2	38·6	− 1·4	2	− 7	29	+ 3	3	− 1	0·33	−0·35	16	+ 7	29	+13
8. ENGLAND, S.W.	52	21	42·8	33·7	38·4	− 3·2	2	− 15	31	+ 11	2	− 2	0·17	−0·61	22	+ 11	39	+19
9. IRELAND, NORTH	54	29	46·1	36·2	41·4	+ 0·4	11	− 3	25	+ 3	5	0	0·93	+0·17	8	− 2	14	− 3
10. IRELAND, SOUTH	53	27	47·0	35·5	41·5	− 1·3	14	− 7	28	+ 12	4	0	0·60	−0·25	15	+ 4	27	+ 7
11. ENGLISH CHANNEL	53	34	46·5	40·0	43·4	− 1·0	18	− 7	6	− 1	2	− 3	0·15	−0·47	20	+ 6	34	+10

THE SEASON (**Winter**). Aggregates, &c., for the Period of 8 Weeks, November 29th, 1908, to January 23rd, 1909.

0. SCOTLAND, NORTH	56	21	*	*	*	*	88	+29	181	− 83	46	+ 5	12·28	+2·21	32	− 5	9	− 2
Eastern																		
1. SCOTLAND, EAST	58	16	*	*	*	*	71	+18	274	− 50	31	− 1	4·53	−0·43	70	+11	18	+ 3
2. ENGLAND, N.E.	55	11	*	*	*	*	48	−14	262	− 4	30	+ 1	2·27	−1·45	70	+ 4	17	+ 1
3. ENGLAND, EAST	55	7	*	*	*	*	62	− 8	218	− 87	31	0	2·66	−0·73	64	−14	15	− 3
4. MIDLAND COUNTIES	56	3	*	*	*	*	73	− 6	242	− 66	34	+ 4	3·01	−1·11	61	− 6	14	− 2
5. ENGLAND, S.E.	55	3	*	*	*	*	116	+ 7	164	− 61	32	+ 1	3·91	−0·47	77	− 4	18	− 1
Western																		
6. SCOTLAND, WEST	56	22	*	*	*	*	94	+11	167	− 44	43	+ 6	10·03	+0·97	55	− 1	14	0
7. ENGLAND, N.W.	56	16	*	*	*	*	89	+ 2	173	− 41	37	+ 4	5·11	−0·56	71	+13	17	+ 3
8. ENGLAND, SW	57	15	*	*	*	*	161	+16	91	− 68	40	+ 5	6·38	−1·07	84	+ 1	19	0
9. IRELAND, NORTH	54	24	*	*	*	*	147	+42	130	− 54	43	+ 4	7·28	+0·73	69	0	17	0
10. IRELAND, SOUTH	58	26	*	*	*	*	229	+58	90	− 49	44	+ 7	6·84	−1·14	71	−14	17	− 3
11. ENGLISH CHANNEL	57	27	*	*	*	*	286	+56	15	− 38	37	− 2	6·72	+0·31	106	0	23	0

THE YEAR.—Aggregates, &c., for the Period of 3 Weeks, January 3rd to 23rd, 1909.

0. SCOTLAND, NORTH	56	24	*	*	*	*	17	− 2	85	− 20	18	+ 3	5·29	+1·61	12	− 4	9	− 3
Eastern																		
1. SCOTLAND, EAST	58	18	*	*	*	*	15	− 3	106	− 18	13	+ 2	2·52	+0·80	32	+ 7	22	+ 5
2. ENGLAND, N.E.	53	23	*	*	*	*	15	− 6	87	− 17	11	0	0·77	−0·51	42	+ 17	27	+11
3. ENGLAND, EAST	51	25	*	*	*	*	16	− 7	82	− 38	11	0	0·71	−0·49	44	+ 14	27	+ 8
4. MIDLAND COUNTIES	54	21	*	*	*	*	18	− 10	86	− 33	12	+ 1	0·98	−0·47	37	+ 10	23	+ 6
5. ENGLAND, S.E.	52	25	*	*	*	*	32	− 2	62	− 30	10	− 1	0·86	−0·67	43	+ 12	25	+ 7
Western																		
6. SCOTLAND, WEST	53	26	*	*	*	*	26	− 1	64	− 20	17	+ 4	4·31	+1·18	26	+ 3	17	+ 2
7. ENGLAND, N.W.	55	26	*	*	*	*	27	− 1	62	− 23	14	+ 2	2·12	+0·14	29	+ 6	18	+ 4
8. ENGLAND, S.W.	52	21	*	*	*	*	46	− 3	48	− 18	14	+ 2	1·87	−0·60	41	+ 9	24	+ 5
9 IRELAND, NORTH	54	29	*	*	*	*	14	+ 3	55	− 17	17	+ 3	2·93	+0·62	24	− 8	15	− 2
10. IRELAND, SOUTH	55	27	*	*	*	*	64	+ 4	41	− 13	16	+ 3	2·29	−0·52	28	− 5	17	− 3
11. ENGLISH CHANNEL	54	33	*	*	*	*	86	+ 11	6	− 19	13	− 1	2·17	+0·06	43	+ 2	25	+ 1

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation, (generally 7 a.m. or 9 a.m.) at Stations marked *a* and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts	Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*46*	*21st*	*35*	*17th*	*44·4*	*37·6*	*41·1*	—	7	18	7	*0·84*	—	*1·0*		—		*Balta Sound.*
	a Sumburgh Head ..	47	21st	35	17th	45·0	38·0	41·6	+ 2·5	8	17	7	0·73	- 0·19	5·0	- 1·3	11	- 3	Deerness.
	a Stornoway	50	17th	27	17th	46·0	35·9	41·2	+ 2·1	11	26	5	0·98	- 0·15	1·8	- 4·7	4	- 10	Stornoway.
	a Castlebay, Barra Isd.	*50*	*17th*	*31*	*17th*	*47·9*	*39·7*	*44·0*	+ *2·9*	*24*	*6*	*6*	*0·43*	—	*2·4*	—	*5*	—	*Castlebay.*
	a Wick	48	21st	25	17th	44·3	33·7	39·2	+ 1·0	6	32	2	0·11	- 0·47	*	*	*	*	
0. SCOTLAND, N. — b, Mainland.	*p* Strathpeffer.. ..	49	21st	27	17th	43·8	33·2	38·7	+ 2·1	5	33	4	0·80	+ 0·09	3·7	- 3·7	7	- 7	Strathpeffer.
	p Glencarron .. S	48	17th	30	22nd	43·3	35·8	39·7	+ 3·1	4	24	5	2·10	- 0·19	*	*	*	*	
	p Fort Augustus S	46	17th, 18th	28	17th	43·7	33·9	39·0	+ 1·3	5	31	5	2·07	+ 0·81	1·8	- 2·1	4	- 4	Fort Augustus.
	p Fort William S	48	17th, 18th	29	22nd	44·0	35·3	39·8	+ 0·4	6	26	6	3·74	+ 1·62	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	51	21st	30	17th	45·8	33·8	40·0	+ 1·9	11	33	2	0·04	- 0·44	*15·9*	—	*32*	—	*Gordon Castle.*
	a Nairn	49	21st	26	17th	43·7	31·4	37·8	+ 0·4	5	40	4	0·64	+ 0·22	8·6	—	17	—	Nairn.
	a Aberdeen	50	17th	27	17th	43·6	33·6	38·8	+ 1·1	4	32	2	0·16	- 0·36	9·9	- 1·5	20	- 3	Aberdeen.
	a Balmoral .. S	49	21st	22	17th	46·7	30·4	38·9	+ 4·7	13	46	1	0·48	- 0·21	12·3	—	25	—	Crathes S.
	p Crieff .. .. S	47	18th	27	17th	42·7	33·4	38·2	+ 1·0	2	32	5	2·12	+ 1·21	6·7	—	13	—	Balruddery
	a Leith	52	17th, 18th	31	17th	45·3	35·6	40·6	+ 1·5	9	26	4	0·51	+ 0·14	9·8	+ 3·0	19	+ 6	Edinburgh.
	a West Linton.. S	47	18th	24	17th	40·1	30·8	35·6	- 0·6	0	45	4	1·34	—	*6·6*	—	*13*	—	*West Linton.*
	p Marchmont .. S	49	18th	28	23rd	43·6	32·3	38·2	+ 1·6	4	37	3	0·12	- 0·39	5·5	- 4·6	11	- 9	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	52	18th	30	21st	44·3	33·9	39·3	+ 1·1	6	31	2	0·06	- 0·47	12·9	—	24	—	Cockle Park.
	a Shields	52	18th	30	21st	44·7	33·4	39·3	+ 0·5	8	34	1	0·04	- 0·32	*5·8*	- *0·2*	*11*	*0*	*Newcastle.*
	p Durham	52	17th	25	21st	43·7	32·0	38·1	+ 1·0	5	38	2	0·06	- 0·28	13·2	+ 3·5	25	+ 7	Durham.
	p Rounton .. M	50	18th	26	22nd	43·0	31·1	37·3	+ 0·3	3	41	3	0·06	- 0·34	*	*	*	*	
	p Scarborough.. M	51	18th	29	22nd	45·0	35·7	40·5	+ 2·1	8	25	1	0·01	- 0·43	15·4	—	29	—	Scarborough.
	p York	52	18th	26	21st	42·9	33·6	38·4	+ 0·4	3	31	1	0·03	- 0·34	6·9	+ 0·2	13	0	York.
2. ENGLAND, N.E. — b, South.	*a* Spurn Head	48	18th	31	22nd, 23rd	41·3	34·1	37·8	- 0·8	0	29	1	0·02	- 0·26	*	*	*	*	
	a Lincoln	52	18th	23	21st	41·9	29·1	35·8	- 1·4	0	43	3	0·09	- 0·28	12·9	—	24	—	Skegness.
	a Fulbeck	48	17th, 18th	25	21st	40·4	30·8	35·8	- 1·6	0	43	2	0·09	- 0·29	9·6	—	18	—	Rauceby.
3. ENGLAND, E. — a, North.	*p* Cromer	49	18th	31	17th	42·4	34·2	38·5	+ 1·6	1	29	3	0·03	—	*16·2*	—	*29*	—	*Lowestoft.*
	p Hillington .. M	48	18th	26	17th	41·8	30·3	36·3	- 0·4	0	40	3	0·09	- 0·36	9·0	—	16	—	Cromer.
	a Yarmouth	49	18th	30	20th	42·3	34·0	38·3	+ 0·9	1	29	2	0·06	- 0·31	7·8	- 2·8	14	- 5	Hillington.
	a Norwich	48	18th	29	21st	41·9	33·8	38·0	+ 0·8	0	28	5	0·09	—	17·6	—	31	—	Yarmouth.
	p Geldeston	49	18th	28	20th, 21st	43·2	32·7	38·2	+ 0·5	3	35	3	0·07	- 0·27	*	*	*	*	
3. ENGLAND, E. — b, South.	*p* Cambridge	50	18th	28	20th	42·0	32·3	37·3	- 0·2	0	33	2	0·03	- 0·28	11·9	- 0·3	21	- 1	Geldeston.
	a Felixstowe	*46*	*18th*	*28*	*20th*	*40·6*	*33·6*	*37·2*	- *1·0*	*0*	*34*	*3*	*0·10*	—	10·6	- 0·9	19	- 2	Cambridge.
	a Clacton-on-Sea ..	45	17th, 18th	31	20th	41·1	34·0	37·7	- 0·4	0	30	2	0·03	—	*14·9*	—	*27*	—	*Felixstowe.*
	a Rothamsted ..	49	17th	30	20, 21, 23rd	41·0	32·7	37·0	- 0·2	0	35	2	0·07	- 0·38	12·8	—	23	—	Clacton.
	a Shoeburyness ..	*48*	*17th*	*31*	*20th, 21st*	*41·4*	*34·4*	*38·0*	- *0·6*	*0*	*28*	*2*	*0·05*	- *0·23*	9·1	- 1·9	16	- 3	Rothamsted.
	p Tottenham	49	17th, 18th	31	20th	42·7	34·9	39·0	+ 0·3	2	27	1	0·04	—	*19·9*	—	*35*	—	*Southend.*
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	48	18th, 19th	25	22nd	42·1	31·9	37·2	+ 0·4	0	37	1	0·04	- 0·46	8·5	—	15	—	Tottenham.
	a Bawtry	52	18th	21	21st	41·3	30·0	35·9	- 1·8	0	43	1	0·06	- 0·31	12·5	—	23	—	Harrogate.
	p Buxton .. M	*46*	*17, 18, 19th*	*21*	*22nd*	*40·1*	*30·4*	*35·4*	+ *0·1*	*0*	*46*	*3*	*0·18*	- *0·89*	7·7	- 0·6	14	- 1	Worksop.
	a Nottingham ..	50	18th	25	21st	41·9	31·9	37·1	- 0·6	0	34	2	0·13	- 0·28	*14·4*	—	*26*	—	*Buxton.*
	p Birmingham, Edgbsn	48	17th, 18th	28	22nd	41·7	33·6	37·8	+ 0·1	0	29	1	0·11	- 0·33	7·8	—	14	—	Nottingham.
4. MIDLAND COUNTIES. — b, West.	*a* Raunds .. M	49	18th	28	21st	41·6	31·8	36·9	- 0·1	0	36	1	0·03	—	6·1	—	11	—	Birmingham.
	a Oxford	50	17th	30	20th, 21st	42·9	33·9	38·6	- 0·3	3	30	2	0·09	- 0·30	*	*	*	*	
	a Cheadle .. M	48	18th	26	22nd	41·2	32·1	36·8	+ 0·2	0	36	3	0·22	- 0·33	13·8	+ 3·0	24	+ 5	Oxford.
	p Shrewsbury ..	52	18th	22	22nd	44·1	33·0	38·8	+ 0·6	6	35	2	0·06	—	12·0	—	22	—	Sheffield.
	a Hereford .. M	49	17th, 18th	28	20th, 21st	41·2	31·7	36·6	- 1·6	0	38	4	0·13	- 0·37	*	*	*	*	
	a Cirencester	48	17th, 18th	25	20th	40·9	29·5	35·4	- 1·8	0	46	2	0·14	- 0·37	*	*	*	*	
	a Bath	51	17th, 18th	27	21st	42·7	32·4	37·8	- 1·6	2	36	2	0·25	- 0·28	14·0	+ 3·4	25	+ 6	Cirencester.
5. ENGLAND, S.E... ..	*p* Kew	49	17th, 18th	29	20th	43·2	34·2	38·9	0·0	3	30	2	0·05	- 0·32	13·5	—	24	—	Bath.
	a Marlborough ..	49	17th	25	20th	40·9	31·8	36·5	- 0·9	0	39	4	0·21	- 0·34	*15·6*	—	*27*	—	*Ramsgate.*
	a Margate	48	17th, 18th	31	23rd	42·7	36·0	39·5	+ 0·5	2	23	1	0·04	- 0·33	9·5	+ 0·1	17	0	Kew.
	a Wisley, Surrey ..	50	17th	29	20th, 21st	41·2	33·7	37·5	- 1·6	0	31	2	0·07	—	12·4	+ 2·9	22	+ 5	Marlborough.
	a Swarraton .. M	49	17th, 18th	25	20th	41·2	31·7	36·6	- 0·9	0	38	4	0·13	- 0·42	14·9	+ 4·2	26	+ 7	Margate.
	a Tunbridge Wells M	47	17th	28	20th	40·2	32·4	36·5	- 1·0	0	39	3	0·18	- 0·40	12·6	—	22	—	Wisley.
	a Dungeness	48	17th	26	20th	43·0	33·9	38·6	- 0·6	3	30	3	0·13	- 0·42	9·5	- 1·1	17	- 2	Tunbridge Wells.
	p Hastings	49	17th, 18th	30	23rd	42·8	35·6	39·3	- 0·1	2	24	0	0·00	- 0·40	16·9	—	29	—	Worthing.
	p Southampton ..	52	17th	30	20th	44·1	34·5	39·5	- 0·5	6	29	1	0·03	- 0·48	11·2	—	19	—	Littlestone.
	a Ventnor	51	17th	32	21st, 23rd	43·8	36·3	40·2	- 1·5	5	22	2	0·12	- 0·44	*16·4*	+ *2·8*	*28*	+ *5*	*Hastings.*
LONDON	*a Westminster* ..	*50*	*17th, 18th*	*29*	*21st*	*45·1*	*34·3*	*38·9*	+ *0·1*	*3*	*29*	*4*	*0·06*	- *0·32*	17·0	+ 5·4	29	+ 9	Southampton.
	a Greenwich	*50*	*17th*	*29*	*20th*	*42·3*	*34·9*	*38·8*	+ *0·1*	*1*	*26*	*2*	*0·11*	- *0·25*	16·8	+ 3·8	29	+ 7	Ventnor.
															15·2	+ 2·5	26	+ 4	Eastbourne.
															4·2	- *0·1*	*7*	*0*	*Westminster.*
															10·2	+ *1·7*	*19*	+ *3*	*Greenwich.*
6. — a, SCOTLAND. W. ..	*p* Laudale	51	17th	34	20th, 22nd	46·5	36·4	41·7	+ 1·5	13	25	6	2·18	+ 0·33	*	*	*	*	
	a Poltalloch .. S	47	17th	35	20th	43·7	37·3	40·6	+ 1·5	5	18	5	1·74	+ 0·69	*	*	*	*	
	p Glasgow	50	17th	33	17th	44·7	36·8	40·9	+ 2·4	8	21	5	1·28	+ 0·55	2·5	- 2·5	5	- 5	Glasgow.
	p Rothesay .. S	52	17th, 18th	33	20th	46·3	36·1	41·4	+ 1·8	12	25	6	0·98	0·00	*	*	*	*	
	a Kilmarnock ..	51	17th	32	20th, 23rd	44·4	35·0	39·9	+ 0·2	7	28	5	0·81	—	*3·0*	—	*6*	—	*Kilmarnock.*
	a Colmonell	49	17th	32	20th, 21st	40·1	34·7	37·5	- 2·2	0	32	4	0·60	- 0·40	*	*	*	*	
	p Dumfries	49	18th	31	20th	42·6	34·4	38·7	+ 0·4	2	28	5	1·61	+ 0·85	*	*	*	*	
	p Cally, Gatehouse S	49	18th, 20th	30	20th	46·2	33·7	40·2	+ 2·5	12	34	4	0·51	- 0·51	*	*	*	*	
6. — b, ISLE OF MAN ..	*p* Douglas	49	17th, 18th	34	23rd	43·9	37·8	41·0	+ 0·3	5	17	3	0·18	- 0·60	13·4	+ 2·4	25	+ 4	Douglas.
7. — a, ENGLAND, N.W...	*p* Aspatria	48	17th, 18th	33	20, 21, 23rd	43·4	34·8	39·3	+ 1·4	4	28	4	0·86	+ 0·23	20·7	—	38	—	Hoylake.
	p Newton Rigg ..	49	18th	27	21st	41·4	31·1	36·5	- 0·4	0	39	3	0·65	- 0·09	9·4	—	18	—	Aspatria.
	p Stonyhurst	50	18th, 19th	28	21st	43·4	33·7	38·7	+ 0·7	4	31	3	0·18	- 0·76	9·0	+ 0·1	17	0	Newton Rigg.
	p Blackpool .. M	50	18th	26	23rd	42·3	34·2	38·4	- 0·3	1	29	3	0·17	- 0·44	12·0	+ 4·3	22	+ 8	Stonyhurst.
	p M'nch'ster,Prestwich	50	18th	27	21st	41·1	33·3	37·4	- 0·8	0	32	3	0·18	- 0·44	13·6	+ 5·0	25	+ 9	Blackpool.
	a Liverpool (Bidston)	52	18th	28	23rd	42·3	33·9	38·3	- 1·6	1	30	1	0·07	- 0·63	*3·4*	- *1·3*	*6*	- *2*	*Prestwich.*
7. — b, NORTH WALES ..	*a* Hawarden Bridge ..	53	18th	27	23rd	42·4	33·3	38·0	- 2·2	1	32	2	0·10	- 0·38	20·7	—	38	—	*Liverpool.*
	p Llandudno .. M	53	17th	30	23rd	41·6	36·2	39·0	- 2·5	0	21	1	0·06	- 0·31	*12·8*	+ *3·6*	*24*	+ *7*	*Southport.*
	a Holyhead	50	17th, 18th	32	23rd	45·4	38·3	42·0	+ 0·1	10	19	3	0·27	- 0·30	*20·3*	—	*37*	—	*Rhyl.*
	p Bettws-y-Coed ..	51	18th	27	22nd, 23rd	43·3	33·1	38·4	- 2·3	4	33	3	0·48	- 0·17	19·7	+ 9·0	36	+16	Llandudno.
	a Llangammarch Wells	49	18th	21	22nd	41·3	29·5	35·6	- 1·6	0	45	3	0·42	—	27·9	—	50	—	Aberdovey.
8. — a, SOUTH WALES ..	*a* Pembroke	50	17th, 18th	28	23rd	43·7	37·0	40·5	- 2·1	5	20	2	0·21	—	14·3		26	—	Bettws-y-Coed.
	a Cardiff	50	18th	28	21st, 22nd	42·9	32·5	37·9	- 1·7	3	35	3	0·24	- 0·51	23·9	—	43	—	Aberystwyth.
	a Clifton	51	18th	31	21, 22, 23rd	41·7	34·1	38·1	- 1·4	0	27	2	0·05	- 0·76	15·6	—	28	—	Llangammarch Wells.
	a Shaftesbury .. M	47	17th, 18th	28	23rd	39·2	32·5	36·0	- 1·6	0	42	2	0·22	- 0·41	24·8	+12·8	44	+22	Pembroke.
	a Arlington	50	18th	27	22nd	42·3	32·1	37·4	- 1·9	1	36	3	0·26	- 0·33	*15·9*	—	*28*	—	*Cardiff.*
8. — b, ENGLAND, S.W. ..	*a* Cullompton .. M	51	17th, 18th	27	20th, 21st	42·6	32·1	37·6	- 2·0	2	37	2	0·20	- 0·50	*23·6*	+*10·5*	*41*	+*18*	*Tenby.*
	a Portland Bill ..	50	17th, 18th	30	23rd	43·7	36·7	40·3	- 1·5	5	20	2	0·06	—	*12·4*	—	*22*	—	*Clifton.*
	p Plymouth	52	17th, 18th	31	20, 21, 23rd	45·5	33·5	39·7	- 2·5	10	34	2	0·11	- 0·64	*	*	*	*	
	p Falmouth	52	18th	32	23rd	44·6	37·4	41·1	- 2·4	7	19	2	0·14	- 0·82	22·0	+10·5	38	+18	Newquay.
															28·1	+15·2	48	+26	Cullompton.
															19·7	+ *6·3*	*34*	+*11*	*Weymouth.*
																			Torquay.
9. IRELAND, N. — a, West.	*a* Malin Head	49	17th	33	19th	44·9	38·3	41·7	+ 0·8	8	16	4	0·84	+ 0·24	28·1	+15·2	48	+26	Falmouth.
	a Blacksod Point ..	53	17th	35	17th, 19th	47·7	39·9	44·0	+ 1·4	23	6	6	1·40	+ 0·28	*19·7*	+ *6·3*	*34*	+*11*	*Torquay.*
	p Markree Castle ..	54	17th	30	19th	46·7	33·9	40·6	+ 1·2	13	34	5	1·55	+ 0·71	6·9	- 2·4	13	- 4	Markree Castle.
9. IRELAND, N. — b, East.	*p* Armagh	50	18th	31	17th	45·0	34·8	40·1	+ 0·6	8	29	5	0·67	+ 0·10	8·7	- 1·5	16	- 3	Armagh.
	a Donaghadee	52	17th	29	17th	46·3	34·1	40·4	- 0·1	12	32	3	0·18	- 0·40	*	*	*	*	
10. IRELAND, S. — a, East.	*p* Dublin, City.. ..	53	18th	33	23rd	46·2	35·6	41·1	- 0·4	12	27	2	0·26	- 0·24	18·6	+ 5·5	34	+10	Phœnix Park.
	a Kilkenny	52	17th	28	19, 20. 23rd	45·3	32·3	39·1	- 1·0	9	38	3	0·19	- 0·58	*	*	*	*	
	a Waterford	51	17th	27	19th	47·3	33·9	40·9	- 0·2	15	34	2	0·43	- 0·45	*	*	*	*	
10. IRELAND, S. — b, West.	*a* Birr Castle	52	17th	30	19th	46·1	33·6	40·1	+ 0·5	11	34	3	0·42	- 0·21	15·1	+ 3·6	28	+ 7	Birr Castle.
	a Foynes	53	17th	32	19th	47·2	37·7	42·6	+ 0·7	22	12	5	0·98	+ 0·14	*	*	*	*	
	a Cahir .. .. M	51	17th, 22nd	28	23rd	46·7	34·4	40·8	- 0·5	13	32	6	0·35	—	*	*	*	*	
	a Killarney	52	17th	32	19th	48·2	36·6	42·6	+ 0·1	27	15	3	1·45	+ 0·03	*	*	*	*	
	a Valencia	53	17th	33	23rd	48·7	37·4	43·3	- 1·2	28	13	5	0·74	- 0·51	10·6	- 0·7	19	- 1	Valencia.
	a Roche's Point ..	51	17th	33	19th	47·4	37·6	42·7	- 0·8	23	12	5	0·55	- 0·48	15·8	—	28	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	53	17th, 18th	36	23rd	48·4	41·4	45·0	- 0·7	24	2	3	0·24	- 0·46	29·6	+16·2	50	+28	Scilly.
	a Jersey, St. Aubins ..	51	17th	34	23rd	45·4	37·7	41·7	- 0·9	10	18	2	0·07	- 0·60	20·4	+ 5·3	34	+ 9	St. Heliers.
	a Guernsey	50	17th, 18th	38	17th	45·7	40·8	43·4	+ 0·2	15	3	1	0·15	- 0·59	10·0	- 1·6	17	- 3	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 14·7 hrs.* (+ *2·7 hrs.*), *25 %* (+ *5 %*); *Bournemouth, 15·4 hrs., 27 %*; *Bognor, 14·6 hrs., 25 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	— — ..				
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	39·5
	Crathes	5	19	35·6	38·7
	Balmoral	6	19	—	—
	West Linton	5	21	—	—
	Marchmont ..	5	23	36·7	—
2.	Cockle Park	7	18	36·4	39·5
	Durham	4	24	—	—
	York	—	—	38·5	42·0
	Hull	5	21	37·1	43·6
	Lincoln	—	—	36·8	42·1
	Rauceby	5	24	37·7	43·1
3.	Norwich	5	22	—	—
	Yarmouth	—	—	37·4	42·9
	Lowestoft	4	27	37·6	41·9
	Cambridge	5	24	38·1	43·0
	Clacton-on-Sea ..	4	25	39·5	44·6
	Southend	6	22	39·1	—
	Tottenham	3	24	—	44·4
4.	Harrogate	5	24	38·5	40·5
	Huddersfield ..	4	23	37·6	41·8
	Buxton	6	20	37·5	42·7
	Sheffield	5	21	37·7	42·2
	Nottingham	5	25	37·2	40·4
	Birmingham	6	16	39·7	44·9
	Oxford	4	21	—	—
	Hereford	6	21	—	—
	Cirencester	4	25	—	—
5.	Margate	1	30	39·8	42·5
	Greenwich	4	19	—	—
	Westminster ..	4	22	—	—
	Kew	3	19	39·1	44·2
	Canterbury	5	26	40·5	44·8
	Tunbridge Wells ..	5	20	38·2	—
	Wisley	5	23	39·0	43·8
	Worthing	3	24	39·6	45·0
	Portsmouth	2	21	41·2	46·1
6.	Glasgow	2	28	—	—
	Rothesay	—	—	—	43·0
	Colmonel	2	30	—	—
	Dumfries	4	24	—	—
	Douglas	5	26	—	—
7.	Aspatria	3	27	—	—
	Newton Rigg ..	6	21	37·6	40·3
	Burnley	5	20	37·1	41·9
	Southport	4	24	37·8	41·7
	Manchester City ..	3	27	37·9	43·1
	Bettws-y-Coed ..	4	23	40·1	44·7
8.	Llangammarch Wells	6	9	40·1	45·5
	Cardiff	5	24	39·0	44·7
	Clifton	4	27	—	—
	Bath			40·6	46·5
	Plymouth	—	—	41·7	—
9.	Armagh	2	30	39·9	44·0
	Markree	5	25	—	—
10.	Dublin, Trin. Coll. ..	5	24	40·6	44·8
11.	Guernsey, Brooklyn	0	32	43·4	47·6

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	43	43·0
	Kirkwall	43	40	41·2
	Wick	45	45	45·0
SCOTLAND, E.	Cromarty	43	41	42·5
	Pennan Bay	41	38	39·7
	Aberdeen, Cove Bay ..	38	35	36·4
ENGLAND, N.E.	Burnmouth, Berwick ..	43	38	40·8
	Scarborough	42	37	39·9
ENGLAND, E.	Shipwash Lightship ..	42	39	40·9
	Margate	42	38	40·4
ENGLAND, S.E.	Eastbourne‡ ..	44	41	42·9
SCOTLAND, W.	Lamlash	47	42	45·5
	Ballantrae	43	41	42·3
ENGLAND, N.W.	Port Erin	47	45	46·0
ENGLAND, S.W.	Newquay	48	47	47·9
	Plymouth‡	50	48	48.9
	Salcombe	49	47	48·3
IRELAND, N.W.	Sheephaven	47	44	45·6
	Teelin	47	42	44·6
IRELAND, S.W.	Cleggan	45	40	42·9
	Seafield	48	47	47·6
IRELAND, E. ..	.. ..			

‡ Only one observation each day.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

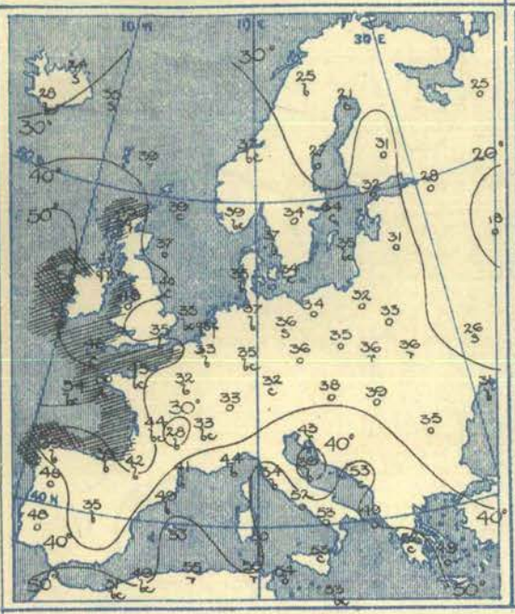
ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = [2]73°, Normal boiling point of water = [3]73°). The figure in the "hundreds" place [2] is not printed in the tables. Values at or below the freezing point of water (73°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7.

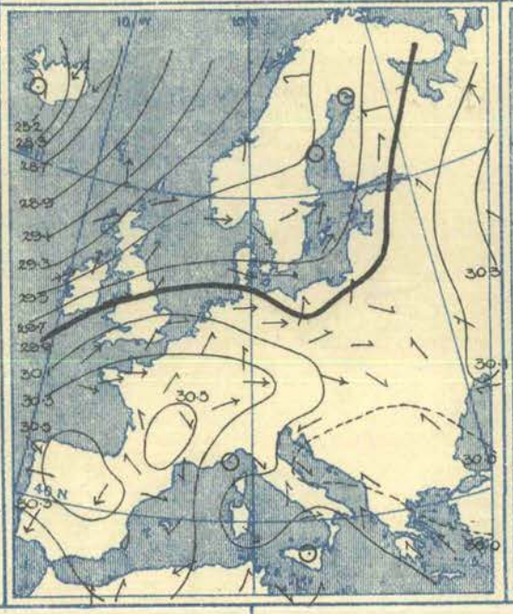
See also p. 4.

Sunday, 17th January, 1909.

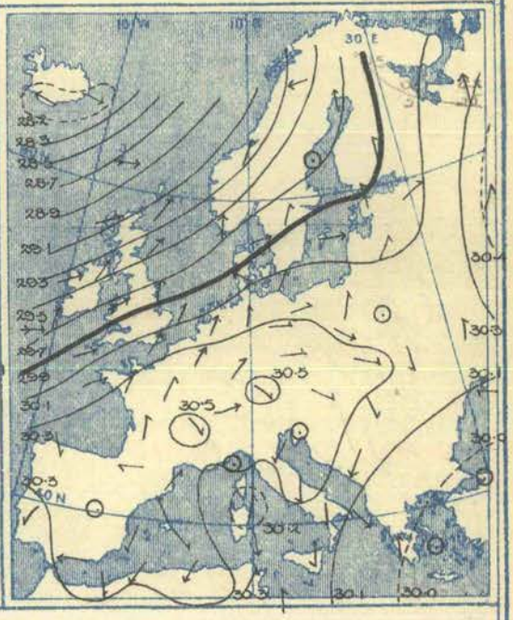
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy and unsettled in Ireland, and the west and north of Great Britain and on the shores of the Adriatic, and snow falling at Yarmouth and Berlin. Overcast in many other regions, but fine and bright in many parts of southern Europe and Scandinavia, as well as in the south of England. Rain falling on the coast of Algeria and at some Polish stations. Some rain later over the greater part of these Islands and Norway, very heavy in Scotland, and about an inch in the north-west of Ireland.

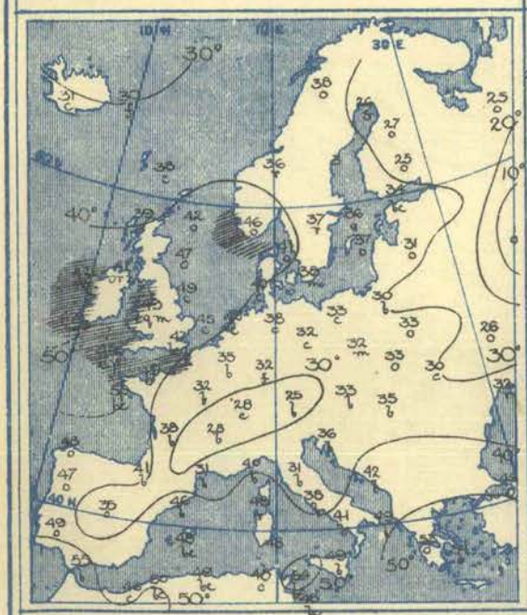
Temperature risen over the United Kingdom, fallen in most other regions. Morning readings about 50° on the west coast of Ireland and on several shores of the Mediterranean, but below 40° over our area as a whole, and below 32° in Russia and Sweden. Lowest value 18° at Moscow. Rising to 50° during day or night over most parts of this country and the west and north of France, to about 55° over a large portion of the Mediterranean, and to a little above 60° in places. Thermometer remaining below 40° over a large area in central Europe.

Wind in morning fresh to high from the South-Westward over our western districts, and blowing a gale at Blacksod Point. A Southerly gale prevailing at Thorshavn, and strong Easterly breezes in Iceland. Light to fresh or strong breezes from various quarters over the south of our area, a moderate Westerly breeze over the North Sea and Denmark, and a Southerly gale at Hangö. Continuing strong to a gale later in many parts of these Islands, and increasing to gale force on the coast of Norway.

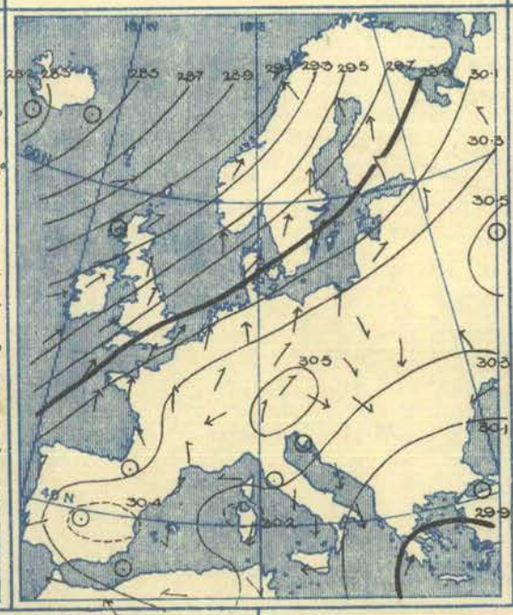
Barometer in morning 30·4 ins. to above 30·5 ins. in an anticyclone covering most of France and the Peninsula, and above 30·3 ins. in central Russia. Relatively low over the south-eastern countries of Europe, and below 28·2 ins. in the west of Iceland and its vicinity. Icelandic depression moving eastwards later, and a secondary causing a fall of the barometer in the south-west of Ireland and England. Gradient continuing steep over nearly the whole of north-western Europe.

Monday, 18th January, 1909.

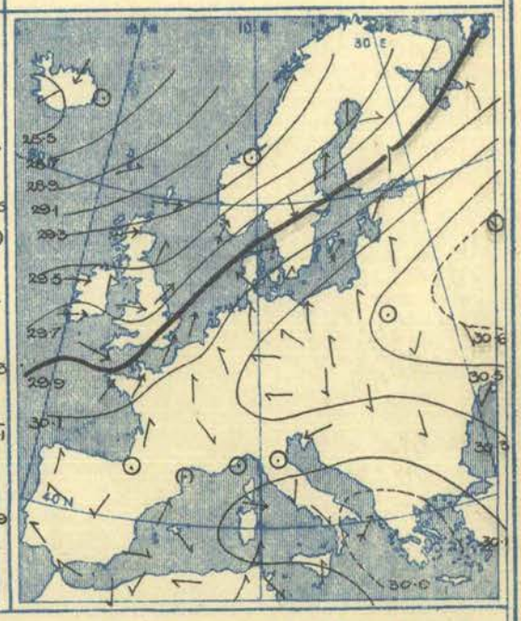
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rough and changeable over the United Kingdom and the north-western countries of the Continent, with showers in several localities, and a variable sky in others. Fair or fine and bright over most of the Mediterranean region, and overcast, but dry, in Russia. Rather heavy rain later in Ireland, and slighter falls in most parts of Britain. More than 1·4 in. of rain later at Christiansund, and about 3·5 ins. of melted snow reported at Ulealborg.

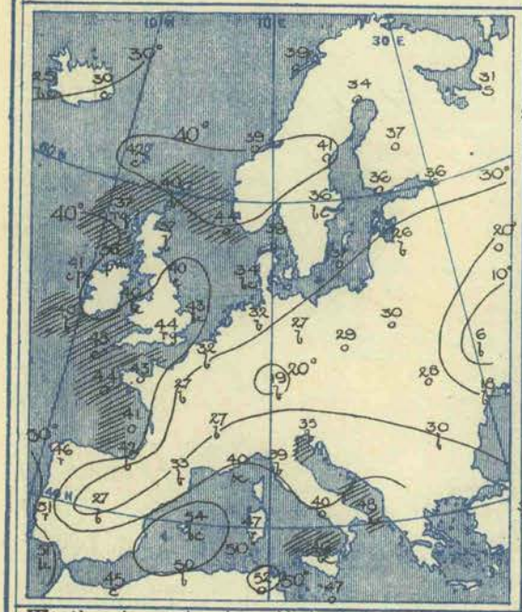
Temperature risen over Great Britain and the east of Ireland, fallen in most other districts. Readings in morning between 45° and 50° at nearly all our own stations, but not far from 32° over most of the European mainland, and below 10° in the central parts of Russia. Below 35° over the north of Italy, and only 40° at Nice. Thermometer as high as 55° at San Fernando, and about 50° at a few other southern stations. Maxima during day about 50° in most of this country, France, and in several parts of Italy, but below 40° over the central countries. Above 60° on the coast of Algeria and in some Spanish localities.

Wind in morning fresh or strong to a gale from between South and South-West over the United Kingdom and its immediate neighbourhood, and light to fresh or strong from that quarter over the north-west of Europe generally. Moderate to strong winds, mainly from the Northward, over Italy and the adjacent portion of the Mediterranean. Decreasing in force and veering somewhat over these Islands during day, but blowing a gale at Skudesnaes, and continuing strong over Scandinavia generally.

Barometer in morning 30·3 ins. to above 30·5 ins. in an irregularly shaped band of high pressure covering the Peninsula and Algeria, and extending thence to Russia. Below 28·2 ins. in a depression off the west of Iceland, and relatively low in disturbances over Corsica and Greece. Icelandic depression apparently moving westwards during day, and a secondary system travelling eastwards across southern England. Pressure giving way decidedly over the Spanish Peninsula. Gradient decreasing over these Islands and also between Scotland and Iceland.

Tuesday, 19th January, 1909.

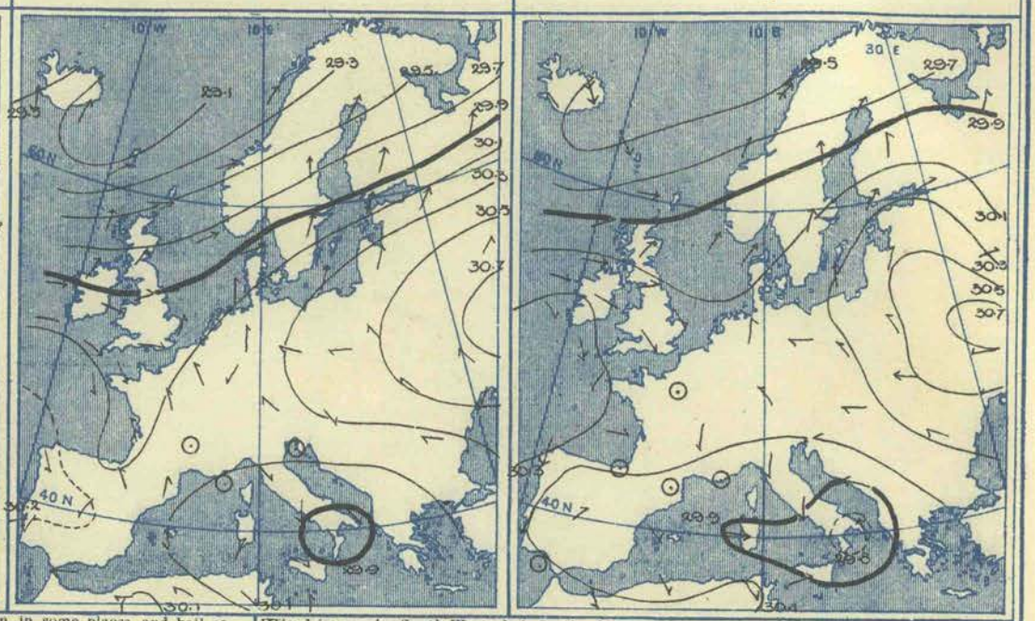
Temperature and Weather. 7 a.m.



Weather in morning changeable in these Islands, with rain in some places, and hail at Castlebay. Fine and bright in many parts of Russia, central Europe, and the Mediterranean, but snow falling at Archangel, and rain at Cagliari and La Calle, and also on the Atlantic coast of the Peninsula. Rain, mostly slight, at several of our own stations later, and about an inch at Brindisi and in eastern Algeria.

Temperature fallen generally, risen in Scandinavia, Finland and northern Russia. Readings in morning below 40° over nearly all of the United Kingdom, below 30° over the major portion of the Continent, and below zero at Kharkoff. About 50° at a few places in the far south and south-west of our area. Maxima during day about 60° at several stations in the Spanish Peninsula and Algeria, but below 50° over most of Italy and only 52° at Palermo. Thermometer remaining below 32° in some parts of central Europe and the east of France, and below 45° over these Islands. Slight frost at night in various parts of England and in central Ireland.

Barometer and Wind. 7 a.m. and 6 p.m.

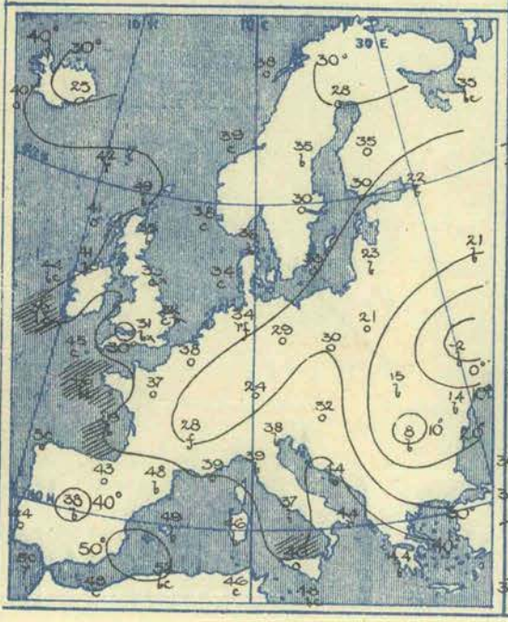


Wind in morning South-Westerly in Scotland, Westerly or North-Westerly over most of Ireland, Wales, and the west of England, and Southerly in the south-east of England. Mainly Southerly or South-Westerly over Scandinavia and the surrounding regions. Fresh to strong in force over the north-west of Europe generally, and strong to a gale on the Gulf of Finland. A cyclonic circulation of light or moderate breezes prevailing over the Mediterranean and Italy. Veering and becoming lighter in these Islands during day, but increasing to a gale in the north-west of Norway.

Barometer in morning above 30·7 ins. in central Russia, and relatively high in a ridge extending thence to France. Above 30·2 ins. over the west of Spain and the adjacent portion of the ocean. Below 29·9 ins. in a depression over southern Italy, and below 29·1 ins. in a large depression to the northward of the Faeröe. Little change in the general distribution later in day. A shallow secondary travelling from the south-east of England and partially dispersing. South-western high pressure system extending over the Bay of Biscay and the south and west of this country.

Wednesday, 20th January, 1909.

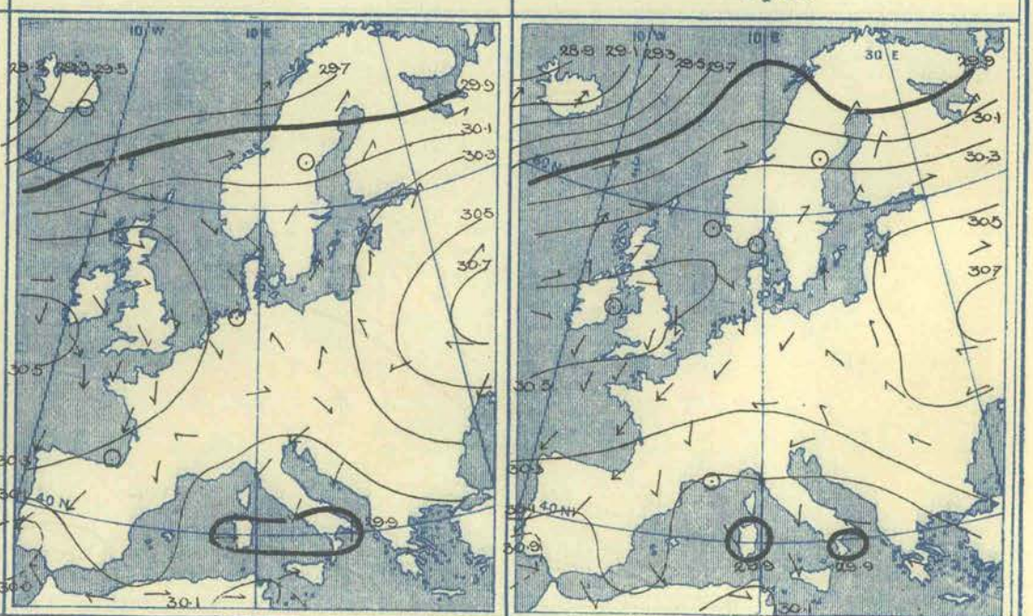
Temperature and Weather. 7 a.m.



Weather in morning fair or fine generally, but overcast in some localities, and rainy at Brindisi, San Fernando and Bilbao, and also at Cuxhaven, and snow falling at Aix-la-Chapelle. Nearly 1·5 in. of rain later at Brindisi, 0·4 in. at Palermo, and 1·1 at San Fernando.

Temperature fallen in most places. Morning readings below 32° in central England and over the major portion of the Continent, and below zero in Little Russia. Above 40° in the Hebrides and at most stations in the south of our area, and as high as 52° at Algiers. Maxima during day not much above 40° in Great Britain, and below it in most Continental regions. Frost continuing all day in the central countries. Thermometer rising to above 50° in the south of Europe, and to about 60° on the coast of Algeria.

Barometer and Wind. 7 a.m. and 6 p.m.

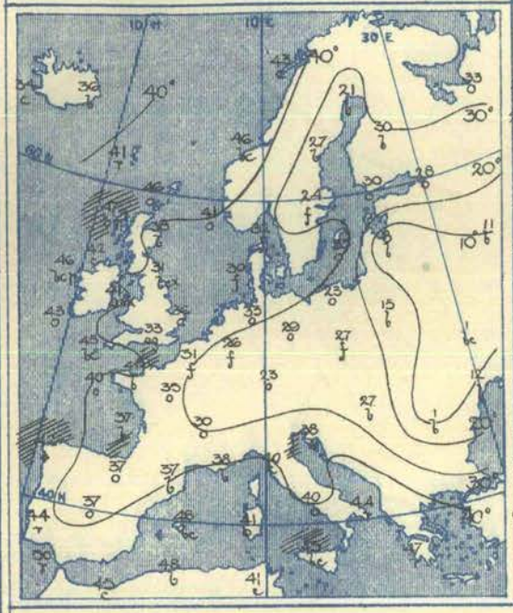


Wind in morning light and anticyclonic over the greater part of our area, but cyclonic in the south and also in the north-west. South-Westerly current strong over the Icelandic region, and North-Easterly winds strong or fresh in some parts of Spain and at Trieste. South-Westerly wind increasing to a strong gale by evening in Iceland, but a decrease in force taking place over the south of our area.

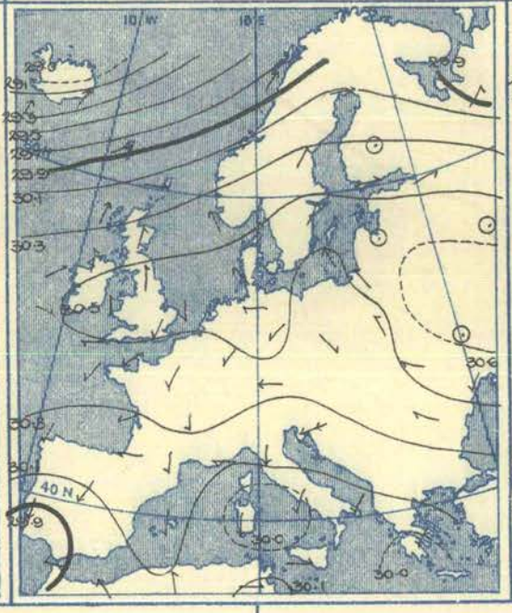
Barometer in morning above 30·7 ins. in the southern part of Russia, and above 30·5 ins. over southern Ireland and the adjacent portion of the Atlantic. Below 29·9 ins. in an elongated depression over Italy and its vicinity, below 30·0 ins. in another system over the south-west of Spain, and less than 29·1 ins. in a large disturbance between Iceland and Greenland. No important change occurring later in day in the general distribution, but south-western high pressure extending further east and north. Northern depression travelling towards the Arctic Sea.

Thursday, 21st January, 1909.

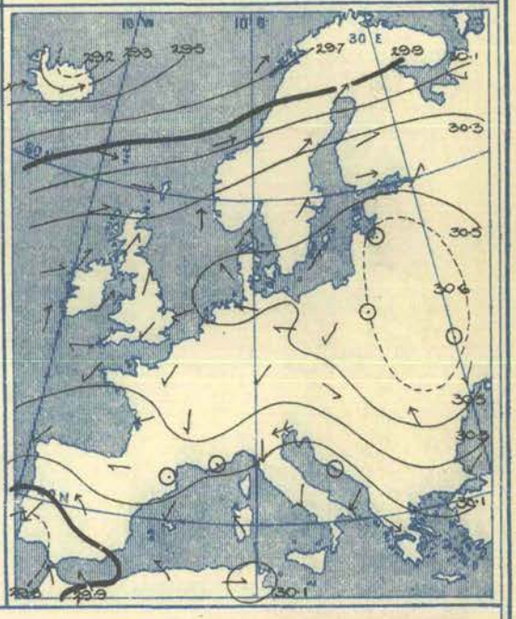
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning generally fair or fine over the United Kingdom and the Continent, but overcast in some localities, and foggy or misty in several parts of England and Denmark. Showery on our extreme north-west coasts, and rainy in the south-west of the Peninsula, as well as at Brindisi and in Greece. Rather heavy rain later in central Spain and in Greece and the north-west of Norway, and more than an inch at San Fernando and Brindisi.

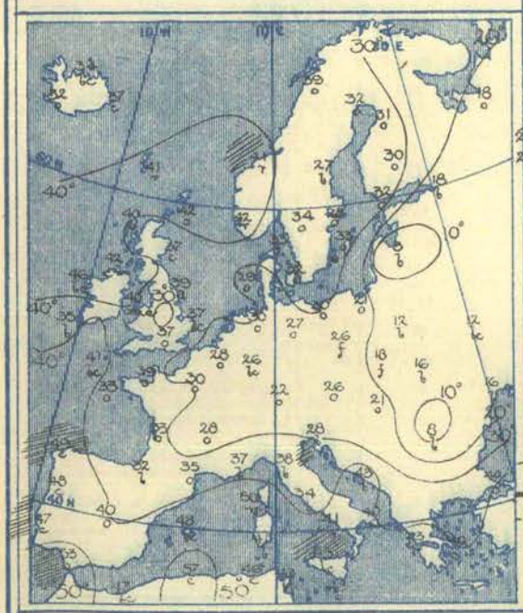
Temperature fallen generally, risen in Ireland, Scotland and Norway. Readings in morning about the freezing point in most English districts, above 45° on our extreme north-west coasts and at Christiansund, and also at some places in the far south of our area. Below 32° over Europe as a whole, and as low as 1° at Hermanstadt and Kieff. Maxima during day below 40° over a large portion of England, below 32° over the central countries, and less than 50° over most of Italy and at Athens. Thermometer touching 60° in Algeria.

Wind in morning blowing a very strong gale from the South-Westward over the Icelandic region, and a light to moderate breeze from that quarter on our north-west and north coasts and over Scandinavia. Light breezes from some Easterly point generally prevalent over the south of this country and most of central Europe, and moderate to strong cyclonic winds in the south of our area. An Easterly gale reported at Trieste. Not much change later over our area as a whole; South-Westerly wind increasing to a gale at Bodö.

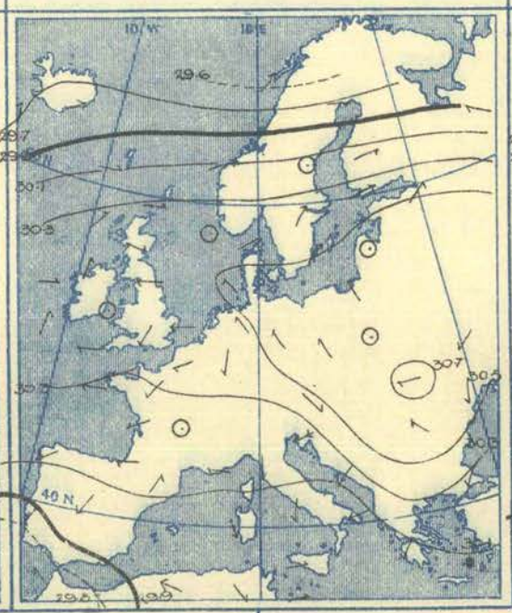
Barometer in morning above 30·6 ins. over the southern half of Russia, and relatively high in a band extending thence to Ireland. Below 29·0 ins. in a large depression having its minimum to the northward of Iceland, and below 30·0 ins. in some rather shallow disturbances over the Mediterranean and Peninsula. Northern depression travelling north-eastwards during day and high pressure system undergoing some modification in form and intensity.

Friday, 22nd January, 1909.

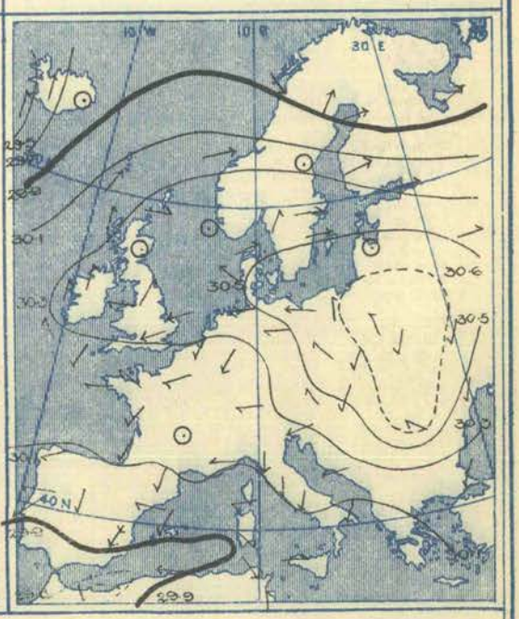
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair or fine and bright at most stations in the south of our area, as well as in Russia, the north of Scotland, and the west of Ireland. Overcast in most other regions, with rain on the west coast of Norway, as well as at Thorshavn, Donaghdee, and North Shields. Slight rain later in various parts of Great Britain, and small amounts in a few scattered places on the Continent.

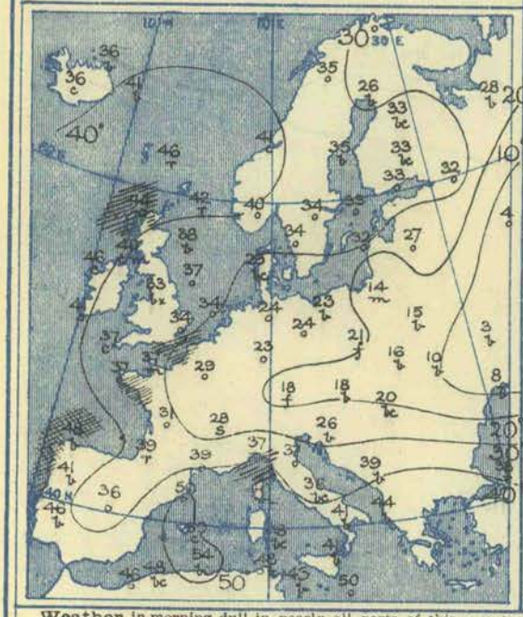
Temperature changed rather irregularly. Morning readings below 10° at Kharkoff, Riga and Hermanstadt, below 20° at several other stations in the east and north-east, below 32° over the mainland of the Continent generally, as well as over the inland parts of Great Britain. Above 40° on nearly all the shores of the Mediterranean, and 53° at San Fernando. Maxima during day no higher than 35° in central and north-western England, and below 32° over the central countries of the Continent. Thermometer only touching 49° at Brindisi, and 50° at Nice, but rising to 61° at Cape Sicié and Algiers.

Wind in morning showing a vast anticyclonic movement over the greater portion of the Continent, and fresh to strong winds from some Northerly or North-Easterly point over the south of our area; a gale prevailing both at Trieste and Alicante. Light and rather variable winds general over these Islands, and a fresh to high Westerly current in the north of our area. Little change later; wind becoming rather more generally Easterly over England.

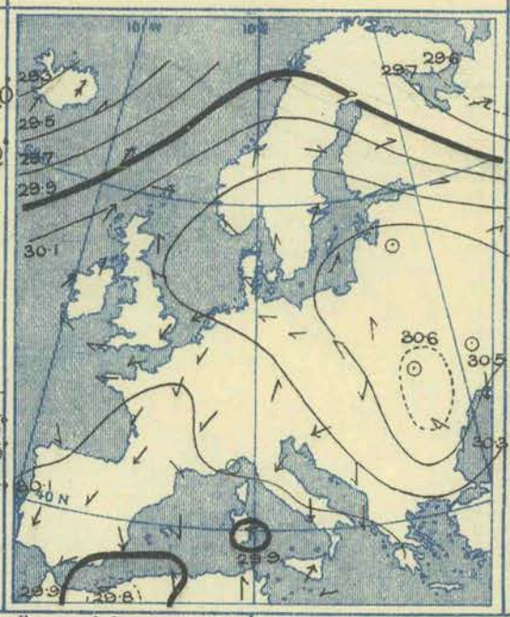
Barometer in morning above 30·7 ins. at Lemberg, and relatively high in an anticyclonic system extending westwards from Russia to this country. Below 29·3 ins. in the south-west of our area, and less than 29·0 ins. in the far north. Little change occurring in the general distribution later in day, but a fresh and brisk fall of the mercury setting in in Iceland.

Saturday, 23rd January, 1909.

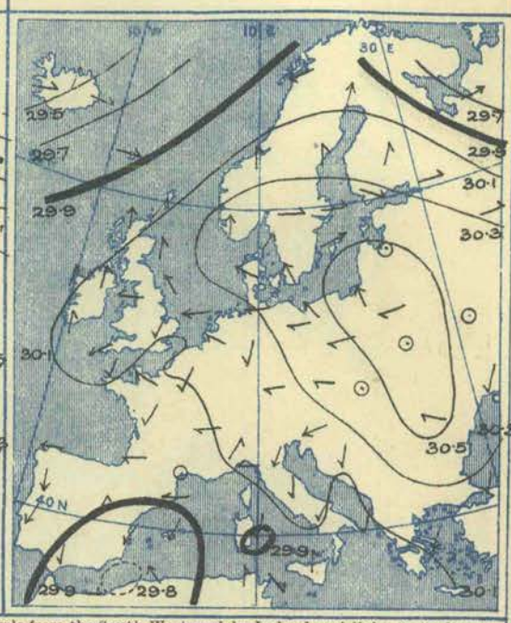
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull in nearly all parts of this country, France and Germany, and in several places elsewhere, and rain falling in Shetland, at Castlebay, in the south-west of France, and at Malta and Constantinople, and snow at Lyons and Riga. Fair to fine and bright at most stations in the east and north-east of our area and also at various places in the far south. A considerable fall of snow at some stations in central France later, and as much as 4·92 inches of rain at Cette.

Temperature changed rather irregularly, but fallen in most parts of the Continent, as well as in the south of England and Scotland. Readings in morning not far from the freezing point over the greater portion of these Islands, France, and northern Italy, but much below it over the central and eastern countries; below 10° over most of Russia, and as low as −10° at Hermanstadt. About 50° at a few places in the far south of our area. Frost continuing throughout the day over the central countries of Europe, and thermometer rising very little above 32° in many parts of England. Maxima below 50° at nearly all stations in the south of Europe, but above 60° in Algeria, and 68° at Algiers.

Wind in morning strong to a gale from the South-Westward in Iceland, and light to moderate from between South and West over Ireland, Scotland, and the north of the Continent. Light or moderate from between North and East over England, France, and the Spanish Peninsula, and from some Northerly point over the south of Europe generally. Very little change later; gale subsiding in Iceland.

Barometer in morning above 30·6 ins. in an anticyclone having its centre over Transylvania; below 29·9 in some shallow minima in the south of our area, below 29·6 ins. over the White Sea, and less than 29·3 ins. in the north-west of Iceland. Scarcely any change occurring later in day in the general distribution of pressure; a slight fall of the barometer taking place in the United Kingdom and the nearer regions of the Continent, and a rather decided rise in Iceland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees from North through East) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Jan. 17th, 10.0 a.m. to 12.40 p.m.	Brighton, 125 m.	Temperature Humidity .. Wind	79° 95% 240°, 4	79° 95% 210°, 14	77° 100% 250°, 15	75° 90% 250°, 17				72° 90% 250°, 17	1,400	Various types of high clouds. Hail squall at 11.50 a.m. Much lower temp. and less wind after it.
2	Jan. 18th, 12.20 p.m. to 1.6 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	80° 88% 191°, 10	79° 90% 194°, 12	78·5° 92% 196°, 14	75° 98% 205°, 19				72·5° 100% 202°, 20	1,270	Dull, overcast. Light occasional rain. Fresh to strong wind, gusty. Cu.-N. clouds at 1,200 metres.
3	Jan. 19th, 11.0 a.m. to 11.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	77·5° 100% 290°, 4	77° 100% 300°, 9	75° 100% 315, 12	72° 70% 325, 13				71·5° 60% 325°, 14	1,230	Steady wind. High clouds, 225°. Overcast.
4	Jan. 19th, 1.24 p.m. to 4.26 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	75° 91% 275°, 4	74·5° 92% 255°, 8	74° 93% 259°, 10	69·5° 96% 268°, 12	66° 98% 270°, 13	63·8° 85% 266°, 14		61·3° 60% 259°, 15	2,400	Snow early, fine, bright later. Gentle steady breeze. Cu. clouds at 1,600 m.
5	Jan. 20th, 9.50 a.m. to 12.20 p.m.	Brighton, 125 m.	Temperature Humidity .. Wind .. .	75° 95% 22°, 7	74° 95% 22°, 10	73° 95% 35°, 12	72° 80% 45°, 15				72° 70% 45°, 16	1,300	Cloudless. Haze at 100 m. Ground wind altered at 500 m.
6	Jan. 21st, 4.40 p.m. to 5.27 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	71·7° 88% Calm.	71·5° 87% Calm.	71·3° 87% 286°, 1	70° 83% 315°, 1				69·7° 82% 315°, 1	1,070	Bright, sunny, calm. Heavy fog at noon. Small temp. gradient.
7	Jan. 22nd, 4.15 p.m. to 5.0 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	73·5° 87% 112°, 1	72·5° 89% 105°, 1	72° 90% 103°, 2					68·5° 100% 90·3	880	Light air to calm. Observations by captive balloon. Cu.-N. clouds at 800 metres.
8	Jan. 23rd, 10.25 a.m. to 12.8 p.m.	Brighton, 125 m.	Temperature Humidity .. Wind	73° 90% 70°, 4		69° 100% 75°, 14	66° 100% 75°, 16					1,000	Overcast, stratus. Kite and top part of wire covered with ice.
9	Jan. 23rd, 10.45 a.m. to 12.20 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	72·3° 85% 22°, 5	72° 85% 22°, 7	69° 95% 40°, 9	72·3° 50% ?, 10				73° 30% ?, 11	1,310	Inversion at 900 m. Cloud level, 700 m. Upper wind direction uncertain as both kites were lost in the clouds.
10	Jan. 23rd, 3.4 p.m. to 3.55 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	73° 90% 67°, 2	72° 92% 70°, 3	71·3° 93% 70°, 3					70° 100% 70·3	675	Bright sunny morning. Overcast later. Cold. Light air, variable. Cu.-N. clouds at 600 metres.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10
No. of Kites	2	1	1	2	2	—	—	1	2	—
Area of Surface (sq. metres) ..	9·8	6·5	7	14·3	9·4	—	—	7	15	—
Capacity of Balloon (cub. metres)	—	—	—	—	—	3·4	3·4	—	—	3·4
Length of Wire (metres) ..	2,500	1,500	1,525	3,400	2,000	1,070	1,200	2,000	1,600	760

63, Victoria Street, London, S.W. *January 27th, 1909.* W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* } No. 4. FOURTH WEEK, SUNDAY JANUARY 24TH TO SATURDAY JANUARY 30TH, 1909. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather.—Over the Kingdom generally there was very little rain, and at many coast stations there was extremely little cloud. Over the inland districts of England, however, much fog and mist prevailed, and at times the thick weather extended both to our south-west and north-east coasts. At the end of the period snow showers occurred in the north and east of Great Britain.

Temperature was below the average except in Ireland N. and Scotland N., the deficit being large over England generally, and more than 8° in the Midland Counties and England N.E. The highest of the maxima were recorded between Jan. 26th and 29th, and ranged from 52° in Ireland, England S.W. and the English Channel, and 50° in Scotland E. to 43° in England E. Some of the maxima recorded in England about the middle of the week were very little above 32°. The lowest of the minima, which were registered on rather irregular dates, varied from 13° in England S.W. and the Midland Counties, and 16° or 17° in several other parts of England to 27° in Ireland N. The lowest grass readings reported were 2° at Llangammarch Wells, 10° at Harrogate, 11° at Cockle Park (Morpeth), Sheffield, Birmingham, and Portsmouth, and 14° at Newton Rigg and Hull.

Mean Temperature of the Sea was higher than during the corresponding week of 1908 on the south-west coast and in some other localities, but considerably lower at Eastbourne and Cromarty. The actual figures for the week ranged from 47·8° at Plymouth to about 37° at Aberdeen and Scarborough.

Rainfall was less than the average in all districts, the fall being very slight over England.

Bright Sunshine exceeded the normal except in Scotland W. In the north-west and west of England and also at some places in the east and south the week was very bright. The percentage of the possible duration ranged from 49 in the Channel Islands, 45 in England N.W. and 41 in England E. to 21 in the Midland Counties, 15 in Scotland W. and 14 in Scotland N.

Barometer and Wind.—During the greater part of the week an anticyclone extended from the Baltic or central countries of the Continent to England, while Ireland and Scotland were mainly influenced by large cyclonic systems over the Icelandic region, and experienced a light or moderate to fresh breeze from between South and South-West. By Friday the high pressure had moved further south, while a shallow secondary disturbance appeared over England, where a light breeze from the South Westward succeeded the variable Easterly airs and calms of the preceding days. At the close of the week a very brisk fall of the barometer over Denmark and the surrounding regions and a rise in Iceland and the west of this country resulted in a moderate to strong current of wind from the Northward.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 36.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1 Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Deficient	Very deficient	Deficient	Moderate	Moderate	Very deficient
	Rainfall ...	Very light	Light	Very light	Light	Very light	Very light	Light	Very light	Very light	Light	Light	Very light
	Sunshine ...	Moderate	Moderate	Abundant	Abundant	Moderate	Abundant	Moderate	Very abundant	Very abundant	Moderate	Moderate	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1908–9. 9 weeks from Nov. 29th, 1908.	Warmth ...	3 * 1	3 * 1	2 * 3	3 * 2	2 * 2	3 * 2	3 * 1	3 * 2	4 * 3	4 * 0	3 * 1	4 * 2
	Rainfall ...	2 * 2	1 * 4	0 * 4	2 * 5	2 * 4	3 * 5	3 * 1	1 * 4	3 * 5	2 * 2	3 * 3	4 * 5
	Sunshine ...	3 * 2	4 * 1	2 * 2	2 * 4	2 * 4	2 * 3	3 * 2	5 * 1	3 * 2	3 * 2	1 * 4	3 * 3

PAST SEASONS.

WINTER, 1907–8. Dec. 1st–Feb. 29th. 13 weeks.	Warmth ...	4 * 2	4 * 1	3 * 4	4 * 3	4 * 3	5 * 4	5 * 3	4 * 4	3 * 3	5 * 3	5 * 3	4 * 2
	Rainfall ...	4 * 4	6 * 5	4 * 6	5 * 5	4 * 8	3 * 7	7 * 3	8 * 4	3 * 4	6 * 3	2 * 3	4 * 5
	Sunshine ...	4 * 3	5 * 1	3 * 2	5 * 5	3 * 4	6 * 2	1 * 3	6 * 2	3 * 3	3 * 4	3 * 3	2 * 3
SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5.)

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FOURTH WEEK—January 24th to 30th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	49	25	42·5	35·3	39·0	+ 0·1	1	− 7	25	− 7	5	− 1	0·57	−1·06	7	+ 1	14	+ 2
Eastern																		
1. SCOTLAND, EAST	50	20	40·9	29·3	35·3	− 3·3	0	− 10	47	+ 11	2	− 3	0·18	−0·43	13	+ 1	24	+ 2
2. ENGLAND, N.E.	45	17	36·8	25·1	31·2	− 8·2	0	− 10	76	+ 46	1	− 2	0·02	−0·32	19	+ 7	33	+12
3. ENGLAND, EAST	43	17	37·7	25·6	31·9	− 7·0	0	− 10	71	+ 37	2	− 2	0·09	−0·29	24	+ 10	41	+17
4. MIDLAND COUNTIES	49	13	35·8	24·5	30·4	− 8·7	0	− 12	81	+ 48	1	− 3	0·02	−0·48	12	+ 1	21	+ 1
5. ENGLAND, S.E.	48	17	38·9	26·7	33·1	− 7·2	0	− 13	62	+ 37	1	− 2	0·03	−0·48	21	+ 9	36	+14
Western																		
6. SCOTLAND, WEST	48	22	41·3	33·5	37·6	− 3·1	0	− 13	31	+ 8	3	− 3	0·41	−0·71	8	− 1	15	− 2
7. ENGLAND, N.W.	48	16	39·0	27·9	33·7	− 6·6	0	− 11	58	+ 34	2	− 2	0·20	−0·55	26	+ 16	45	+28
8. ENGLAND, S.W.	52	13	40·7	29·8	35·4	− 6·5	0	− 18	46	+ 28	1	− 4	0·04	−0·81	23	+ 10	38	+17
9. IRELAND, NORTH	52	27	45·6	37·6	41·7	+ 0·6	10	− 5	19	2	4	− 1	0·36	−0·45	12	+ 1	20	+ 2
10. IRELAND, SOUTH	52	25	47·1	37·6	42·5	− 0·4	22	0	12	− 3	3	− 2	0·33	−0·51	14	+ 2	24	+ 3
11. ENGLISH CHANNEL	52	25	46·7	34·5	40·8	− 3·9	13	− 13	31	+ 25	1	− 4	0·01	−0·64	30	+ 15	49	+24

THE SEASON (**Winter**). Aggregates, &c., for the Period of 9 Weeks, November 29th, 1908, to January 30th, 1909.

0. SCOTLAND, NORTH	56	21	*	*	*	*	89	+22	206	− 90	51	+ 4	12·85	+1·15	39	− 5	9	− 1
Eastern																		
1. SCOTLAND, EAST	58	16	*	*	*	*	71	+ 8	321	− 39	33	− 4	4·71	−0·86	83	+12	19	+ 3
2. ENGLAND, N.E...	55	11	*	*	*	*	48	−24	338	+ 42	31	− 1	2·29	−1·77	89	+11	19	+ 2
3. ENGLAND, EAST	55	7	*	*	*	*	62	−18	289	− 50	33	− 2	2·75	−1·02	88	− 5	18	− 1
4. MIDLAND COUNTIES.. ..	56	3	*	*	*	*	73	−18	323	− 18	35	+ 1	3·03	−1·59	73	− 6	15	− 1
5. ENGLAND, S.E.	55	3	*	*	*	*	116	− 6	226	− 24	33	− 1	3·94	−0·95	98	+ 5	20	+ 1
Western																		
6. SCOTLAND, WEST	56	22	*	*	*	*	94	− 2	198	− 36	43	+ 3	10·44	+0·26	63	− 2	14	− 1
7. ENGLAND, N.W...	56	16	*	*	*	*	89	− 9	231	− 7	39	+ 2	5·31	−1·11	97	+29	21	+ 6
8. ENGLAND, SW	57	13	*	*	*	*	161	− 2	137	− 40	41	+ 1	6·42	−1·88	107	+12	21	+ 2
9. IRELAND, NORTH	54	24	*	*	*	*	157	+37	149	− 56	47	+ 3	7·64	+0·28	81	+ 1	17	0
10. IRELAND, SOUTH	58	25	*	*	*	*	251	+58	102	− 52	47	+ 5	7·17	−1·65	85	−12	18	− 3
11. ENGLISH CHANNEL	57	25	*	*	*	*	299	+43	46	− 13	38	− 6	6·73	−0·33	136	+14	26	+ 3

THE YEAR.—Aggregates, &c., for the Period of 4 Weeks, January 3rd to 30th, 1909.

0. SCOTLAND, NORTH	56	24	*	*	*	*	18	− 9	110	− 27	23	+ 2	5·86	+0·55	19	− 3	10	− 2
Eastern																		
1. SCOTLAND, EAST	58	18	*	*	*	*	15	− 13	153	− 7	15	− 1	2·70	+0·37	45	+ 9	22	+ 4
2. ENGLAND, N.E.	53	17	*	*	*	*	15	− 16	163	+ 29	12	− 2	0·79	−0·83	61	+ 25	29	+11
3. ENGLAND, EAST	51	17	*	*	*	*	16	− 17	153	− 1	13	− 2	0·80	−0·78	68	+ 23	31	+10
4. MIDLAND COUNTIES.. ..	54	13	*	*	*	*	18	− 22	167	+ 15	13	− 2	1·00	−0·95	49	+ 11	22	+ 5
5. ENGLAND, S.E...	52	17	*	*	*	*	32	− 15	124	+ 7	11	− 3	0·89	−1·15	64	+ 21	28	+ 9
Western																		
6. SCOTLAND, WEST	53	22	*	*	*	*	26	− 14	95	− 12	20	+ 1	4·72	+0·47	34	+ 2	16	+ 1
7. ENGLAND, N.W.	55	16	*	*	*	*	27	− 12	120	+ 11	16	0	2·32	−0·41	55	+ 22	26	+10
8. ENGLAND, S.W.	52	13	*	*	*	*	46	− 21	94	+ 10	15	− 2	1·91	−1·41	64	+ 20	28	+ 9
9 IRELAND, NORTH	54	27	*	*	*	*	51	− 2	74	− 19	21	+ 2	3·29	+0·17	36	− 2	17	− 1
10. IRELAND, SOUTH	55	25	*	*	*	*	86	+ 4	53	− 16	19	+ 1	2·62	−1·03	42	− 3	19	− 1
11. ENGLISH CHANNEL	54	25	*	*	*	*	99	− 2	37	+ 6	14	− 5	2·18	−0·58	73	+ 16	31	+ 7

Erratum.—In last week's Report the Accumulated Temperature above 42° in District 9 for "The Year" should read 41°.

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation, (generally 7 a.m. or 9 a.m.) at Stations marked *a* and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℳ is supplied by the Royal Meteorological Society, and that for Stations marked 𝒮 is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*46*	*27th*	*25*	*30th*	*42·2*	*35·6*	*39·0*	—	*1*	*23*	*7*	*0·34*	—	*1·4*	—	*3*	—	*Balta Sound.*
	a Sumburgh Head ..	47	26th	25	30th	42·0	36·7	39·5	+ 0·5	0	18	5	0·34	- 0·54	9·0	+ 1·2	18	+ 2	Deerness.
	a Stornoway	47	26th, 28th	31	30th	43·7	39·0	41·4	+ 2·3	5	12	7	0·56	- 0·55	6·8	- 1·5	13	- 3	Stornoway.
	a Castlebay, Barra Isd.	*48*	*26th*	*36*	*30th*	*45·6*	*41·3*	*43·5*	+ 2·4	*13*	*2*	*7*	*0·50*	—	*7·4*	—	*14*	—	*Castlebay.*
	a Wick	45	26th, 27th	26	30th	41·0	33·9	37·6	- 0·5	0	31	4	0·44	- 0·13	*	*	*	*	*
b, Mainland.	*p* Strathpeffer	49	26th	26	25th	42·1	32·3	37·4	+ 0·6	0	35	4	0·26	- 0·44	7·3	- 1·7	14	- 3	Strathpeffer.
	p Glencarron	49	26th, 28th	27	24th	43·3	33·6	38·6	+ 2·0	4	31	5	1·01	- 1·16	*	*	*	*	*
	p Fort Augustus ..	47	26th	29	30th	42·4	35·2	38·9	+ 1·2	1	25	3	0·36	- 0·84	6·1	+ 0·8	12	+ 2	Fort Augustus.
	p Fort William ..	47	27th	32	30th	42·9	36·7	39·9	+ 0·6	3	20	7	1·00	- 1·04	*	*	*	*	*
1. SCOTLAND, E.	*p* Gordon Castle S	50	26th	27	24th	43·2	31·4	37·5	- 0·8	3	39	2	0·30	- 0·18	*16·8*	—	*32*	—	*Gordon Castle.*
	a Nairn	48	26th	24	25th	41·9	30·9	36·6	- 0·8	0	38	5	0·19	- 0·24	16·6	—	31	—	Nairn.
	a Aberdeen	43	26th, 29th	28	30th	39·7	32·4	36·2	- 1·6	0	41	2	0·17	- 0·34	13·8	+ 0·9	26	+ 2	Aberdeen.
	a Balmoral ..	50	26th	20	25th	46·7	26·6	37·1	+ 3·1	13	60	2	0·26	- 0·42	16·8	—	32	—	Crathes S.
	p Crieff	42	27th, 29th	28	24th	39·0	30·4	34·9	- 2·3	0	50	1	0·30	- 0·58	11·2	—	21	—	Balruddery
	a Leith	45	27th	26	25th, 26th	41·3	29·1	35·4	- 3·8	0	46	2	0·05	- 0·32	7·0	- 1·4	13	- 3	Edinburgh.
	a West Linton .. S	42	27th	20	25th	36·8	25·2	31·2	- 5·0	0	76	2	0·13	—	*16·5*	—	*30*	—	*West Linton.*
	p Marchmont .. S	43	29th	25	27th, 28th	38·7	28·0	33·6	- 2·9	0	59	1	0·04	- 0·47	14·0	+ 2·6	26	+ 5	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	44	28th, 29th	18	28th, 29th	40·9	24·6	33·1	- 5·1	0	62	1	0·02	- 0·49	26·3	—	47	—	Cockle Park.
	a Shields	45	29th	22	28th, 29th	38·4	26·0	32·5	- 6·1	0	67	1	0·01	- 0·33	*4·7*	*- 2·6*	*8*	*- 5*	*Newcastle.*
	p Durham	44	29th	18	27th	35·6	23·8	29·9	- 7·3	0	85	0	0·00	- 0·34	22·4	+11·2	40	+20	Durham.
	p Rounton .. M	45	29th	17	26th	35·3	24·1	29·9	- 7·1	0	85	0	0·00	- 0·39	*	*	*	*	*
	p Scarborough .. M	43	29th	24	26, 27, 28th	37·7	27·6	32·9	- 5·6	0	64	2	0·03	- 0·41	16·1	—	28	—	Scarborough.
	p York	44	29th	20	26th	34·8	24·9	30·1	- 8·1	0	83	2	0·02	- 0·35	5·0	- 3·3	9	- 6	York.
b, South.	*a* Spurn Head	40	29th	22	28th	36·4	28·0	32·4	- 6·2	0	67	1	0·02	- 0·25	*	*	*	*	*
	a Lincoln	41	29th	19	27th	35·7	23·2	29·7	- 7·6	0	86	2	0·02	- 0·34	25·8	—	45	—	Skegness.
	a Fulbeck	41	29th	18	27th	36·2	23·4	30·1	- 7·5	0	83	1	0·06	- 0·32	16·4	—	28	—	Rauceby.
															30·4	—	*52*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	41	25th, 27th	27	28th, 29th	38·6	29·7	34·3	- 2·6	0	54	4	0·13	—	24·3	—	42	—	Cromer.
	p Hillington .. M	41	25th	18	28th	34·1	23·1	28·8	- 8·3	0	92	2	0·04	- 0·41	19·8	+ 8·0	34	+14	Hillington.
	a Yarmouth	41	25th	23	29th	39·0	28·0	33·7	- 3·7	0	58	2	0·21	- 0·15	33·8	—	58	—	Yarmouth.
	a Norwich	40	25th, 26th	21	27th	36·6	24·8	30·9	- 6·3	0	78	2	0·14	—	*	*	*	*	*
	p Geldeston	43	25, 27, 28th	17	28th	40·3	24·0	32·5	- 5·5	0	67	3	0·12	- 0·22	24·0	+10·8	41	+19	Geldeston.
	p Cambridge	39	25, 26, 29th	20	28th	35·9	23·4	29·9	- 7·8	0	85	1	0·03	- 0·28	16·5	+ 4·0	28	+ 7	Cambridge.
b, South.	*a Felixstowe*	*42*	*27th*	*21*	*28th*	*39·6*	*26·3*	*33·2*	*- 5·1*	*0*	*62*	*3*	*0·10*	—	*23·6*	—	*49*	—	*Felixstowe.*
	a Clacton-on-Sea ..	43	27th	25	29th	38·3	28·1	33·4	- 4·8	0	60	1	0·09	—	26·6	—	45	—	Clacton.
	a Rothamsted ..	41	25, 28, 29th	18	28th	37·9	23·4	30·9	- 6·5	0	78	3	0·02	- 0·44	30·4	+18·5	52	+31	Rothamsted.
	a Shoeburyness ..	*42*	*25th*	*22*	*28th*	*38·1*	*26·0*	*32·3*	*- 6·2*	*0*	*68*	*1*	*0·06*	*- 0·22*	*23·2*	—	*39*	—	*Southend.*
	p Tottenham	42	25th, 29th	21	28th	38·5	26·1	32·6	- 6·2	0	66	0	0·00	—	19·8	—	34	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	43	29th	13	27th	35·4	23·3	29·6	- 7·2	0	87	0	0·00	- 0·59	9·9	—	17	—	Harrogate.
	a Bawtry	43	29th	15	26th	32·7	22·4	27·8	- 9·9	0	99	0	0·00	- 0·37	18·7	+ 9·2	32	+16	Worksop.
	p Buxton .. M	*41*	*28th*	*13*	*28th*	*35·7*	*20·7*	*28·5*	*- 6·9*	*0*	*95*	*1*	*0·04*	*- 1·00*	*24·2*	—	*42*	—	*Buxton.*
	a Nottingham ..	42	29th	21	25, 26, 29th	34·4	24·0	29·4	- 8·4	0	88	1	0·01	- 0·39	7·5	—	13	—	Nottingham.
	a Birmingham, Edgbsn	45	29th	21	28th	37·2	27·1	32·4	- 5·3	0	67	1	0·06	- 0·37	11·6	—	20	—	Birmingham.
	a Raunds .. M	42	25th	18	26, 27, 29th	36·6	21·5	29·4	- 7·8	0	88	0	0·00	—	*	*	*	*	*
	a Oxford	40	25th	21	28th, 29th	35·9	25·1	30·7	- 8·2	0	79	1	0·02	- 0·37	10·9	- 1·1	19	- 2	Oxford.
b, West.	*a* Cheadle .. M	39	29th	20	28th	33·6	24·9	29·4	- 7·5	0	88	0	0·00	- 0·54	16·3	—	29	—	Sheffield.
	p Shrewsbury	47	29th	19	26th	39·6	24·6	32·4	- 6·1	0	67	1	0·06	—	*	*	*	*	*
	a Hereford .. M	42	29th	22	25th	36·6	25·6	31·3	- 7·1	0	75	1	0·02	- 0·48	*	*	*	*	*
	a Cirencester	40	29th	20	28th	34·6	24·4	29·7	- 7·8	0	86	1	0·04	- 0·46	8·2	- 3·8	14	- 6	Cirencester.
	a Bath	49	29th	22	28th	37·6	26·7	32·4	- 7·1	0	67	1	0·01	- 0·51	15·3	—	26	—	Bath.
															29·3	—	*49*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	41	29th	23	29th	35·4	26·2	31·0	- 8·0	0	77	0	0·01	- 0·36	5·0	- 5·2	9	- 9	Kew.
	a Marlborough ..	46	29th	18	28th	36·6	22·3	29·7	- 7·8	0	86	2	0·03	- 0·52	11·6	+ 1·2	20	+ 2	Marlborough.
	a Margate	44	25th	23	28th	40·0	29·9	35·2	- 3·9	0	48	1	0·03	- 0·33	24·1	+12·1	41	+21	Margate.
	a Wisley, Surrey ..	44	29th	19	29th	34·1	24·5	29·5	- 9·9	0	88	1	0·02	—	4·7	—	8	—	Wisley.
	a Swarraton .. M	45	29th	17	28th	37·3	24·4	31·1	- 6·5	0	76	1	0·04	- 0·51	31·4	—	52	—	Worthing.
	a Tunbridge Wells M	43	28th	21	28th	38·8	26·0	32·7	- 5·0	0	65	1	0·04	- 0·51	28·8	+17·3	48	+29	Tunbridge Wells.
	a Dungeness	44	27th, 29th	20	30th	42·0	24·4	33·6	- 5·6	0	59	3	0·08	- 0·32	29·5	—	49	—	Littlestone.
	p Hastings	44	28th, 29th	27	29th	41·1	29·7	35·6	- 4·0	0	45	1	0·02	- 0·48	*32·3*	*+17·6*	*54*	*+29*	*Hastings.*
	p Southampton ..	46	29th	22	28th	40·0	27·4	34·0	- 6·2	0	56	2	0·03	- 0·52	20·3	+ 7·5	34	+13	Southampton.
	a Ventnor	48	29th	30	24, 26, 27th	43·5	32·6	38·3	- 3·2	4	36	0	0·00	- 0·55	29·1	+14·9	49	+25	Ventnor.
															28·4	+14·8	47	+25	Eastbourne.
LONDON	*a Westminster* ..	*44*	*29th*	*25*	*30th*	*38·3*	*28·0*	*33·4*	*- 5·7*	*0*	*60*	*1*	*0·02*	*- 0·35*	*4·2*	*- 0·8*	*7*	*- 1*	*Westminster.*
	a Greenwich	*46*	*29th*	*21*	*29th*	*36·9*	*26·0*	*31·7*	*- 7·0*	*0*	*72*	*1*	*0·02*	*- 0·33*	*18·9*	*+ 8·4*	*32*	*+14*	*Greenwich.*
6. — a, SCOTLAND. W. ..	*p* Laudale	48	27th	32	30th	44·6	37·4	41·1	+ 0·9	7	19	6	1·16	- 0·64	*	*	*	*	*
	a Poltalloch .. S	44	26th, 28th	31	24th	42·6	34·6	38·8	- 0·2	2	28	5	0·38	- 0·63	*	*	*	*	*
	p Glasgow	44	28th	31	30th	41·3	34·5	38·0	- 0·5	0	28	2	0·20	- 0·50	4·7	- 1·6	9	- 3	Glasgow.
	p Rothesay .. S	46	28th	33	24th	43·0	35·3	39·3	- 0·2	3	25	5	0·47	- 0·48	*	*	*	*	*
	a Kilmarnock ..	45	27th	31	24, 25, 30th	40·8	32·8	37·0	- 2·5	0	35	2	0·24	—	*14·9*	—	*27*	—	*Kilmarnock.*
	a Colmonell	42	27th	31	24th	37·6	33·6	35·7	- 3·4	0	44	2	0·33	- 0·64	*	*	*	*	*
	p Dumfries ..	42	29th	22	25th	37·1	27·5	32·5	- 5·9	0	67	2	0·25	- 0·50	*	*	*	*	*
b, ISLE OF MAN ..	*p* Cally, Gatehouse S	45	30th	29	30th	41·4	30·4	36·1	- 1·9	0	41	2	0·30	- 0·70	*	*	*	*	*
	p Douglas	46	28th	34	24, 25, 27th	42·9	35·8	39·5	- 1·2	3	23	3	0·34	- 0·43	11·6	- 0·8	20	- 1	Douglas.
															29·0	—	51	—	Hoylake.
7. — a, ENGLAND, N.W. ..	*p* Aspatria	43	27th, 28th	24	25th	40·7	29·0	35·1	- 2·8	0	48	2	0·33	- 0·28	24·8	—	44	—	Aspatria.
	p Newton Rigg ..	45	27th	22	27th	39·4	25·8	32·9	- 3·9	0	64	1	0·06	- 0·68	26·1	+15·9	47	+28	Newton Rigg.
	p Stonyhurst	41	29th	19	28th	36·8	25·6	31·4	- 6·5	0	74	1	0·13	- 0·78	13·6	+ 4·4	24	+ 8	Stonyhurst.
	p Blackpool .. M	43	29th	23	28th	37·7	26·8	32·5	- 6·2	0	67	1	0·25	- 0·35	23·2	+13·1	41	+23	Blackpool.
	p M'nch'ster, Prestwich	43	29th	16	28th	36·5	24·1	30·6	- 7·6	0	80	1	0·08	- 0·59	*9·3*	*+ 3·6*	*16*	*+ 6*	*Prestwich.*
	a Liverpool (Bidston)	43	29th	23	28th, 29th	37·3	27·6	32·6	- 7·2	0	66	3	0·14	- 0·33	29·5	—	52	—	*Liverpool.*
	a Hawarden Bridge ..	45	29th	22	28th	38·4	26·0	31·4	- 8·8	0	74	1	0·07	- 0·30	*22·4*	*+11·9*	*39*	*+21*	*Southport.*
b, NORTH WALES ..	*p* Llandudno .. M	44	28th	26	24th, 25th	38·4	31·9	35·3	- 6·1	0	47	3	0·26	- 0·29	32·9	+20·9	57	+36	Llandudno.
	a Holyhead	46	27, 28, 29th	32	24th	43·4	35·0	39·4	- 2·2	4	27	1	0·49	- 0·15	35·7	—	62	—	Aberdovey.
	p Bettws-y-Coed ..	48	29th	22	25th	43·4	27·1	35·6	- 4·9	4	56	2	0·20	—	21·3	—	37	—	Bettws-y-Coed.
															30·6	—	53	—	Aberystwyth.
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	45	29th	13	25th	37·1	18·2	28·0	- 9·5	0	98	2	0·04	—	15·9	—	27	—	Llangammarch Wells.
	a Pembroke	48	28th	28	24th	44·7	35·1	40·1	- 2·4	8	27	2	0·08	- 0·64	21·8	+ 8·4	37	+14	Pembroke.
	a Cardiff	41	29th, 30th	21	28th	36·2	26·6	31·6	- 8·1	0	73	2	0·10	- 0·68	*20·7*	—	*35*	—	*Cardiff.*
															20·2	*+ 5·7*	*34*	*+10*	*Tenby.*
b, ENGLAND, S.W. ..	*a* Clifton	46	29th	23	28th	38·1	28·9	33·7	- 6·0	0	58	1	0·03	- 0·57	*13·2*	—	*22*	—	*Clifton.*
	a Shaftesbury .. M	47	29th	26	24th, 27th	38·2	28·7	33·6	- 4·1	0	59	1	0·01	- 0·57	*	*	*	*	*
	a Arlington	46	26th	26	25, 27, 28th	40·4	28·4	34·6	- 4·6	0	52	2	0·13	- 0·87	29·5	+16·2	49	+27	Newquay.
	a Cullompton .. M	51	29th	23	28th	39·7	27·7	33·9	- 6·0	0	57	1	0·02	- 0·68	10·1	- 1·4	17	- 2	Cullompton.
	a Portland Bill ..	48	29th	30	24th	43·6	34·0	39·0	- 2·7	4	31	0	0·00	—	*21·3*	—	*36*	—	*Weymouth.*
	p Plymouth	52	29th	26	24th, 25th	44·7	33·0	38·1	- 3·1	8	35	0	0·00	- 0·73	30·3	+17·6	50	+29	Plymouth.
	p Falmouth	50	29th	30	24th	44·4	36·9	40·8	- 2·5	7	21	0	0·00	- 0·91	21·1	+ 7·1	35	+12	Falmouth.
															19·5	*+ 5·0*	*33*	*+ 8*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	48	26th	34	25th	44·9	37·7	41·4	+ 0·5	8	18	3	0·19	- 0·39	*	*	*	*	*
	a Blacksod Point ..	52	25th, 26th	35	29th	48·9	41·7	45·4	+ 2·9	25	1	5	0·83	- 0·23	*	*	*	*	*
	p Markree Castle ..	51	26th	27	29th	46·3	35·3	41·0	+ 1·5	12	28	5	0·49	- 0·32	11·9	+ 1·4	21	+ 3	Markree Castle.
b, East.	*p* Armagh	46	25, 26, 27, 28	33	29th	44·2	37·1	40·8	+ 1·1	6	20	3	0·12	- 0·44	11·2	- 0·2	20	0	Armagh.
	a Donaghadee	46	25th, 26th	33	29th, 30th	43·7	36·1	40·1	- 0·4	5	23	4	0·19	- 0·40	*	*	*	*	*
10. IRELAND, S. — a, East.	*p* Dublin, City	50	28th	34	25th, 26th	45·1	36·0	40·7	- 1·0	9	24	1	0·09	- 0·41	20·1	+ 5·9	35	+10	Phœnix Park.
	a Kilkenny	49	26th	25	24th	45·0	33·9	39·7	- 0·5	8	32	1	0·18	- 0·56	*	*	*	*	*
	a Waterford	50	26th	29	24th	46·4	35·1	41·0	- 0·2	12	29	1	0·39	- 0·49	*	*	*	*	*
	a Birr Castle	49	26th	29	29th, 30th	45·9	34·4	40·4	+ 0·6	11	31	2	0·24	- 0·36	12·9	+ 0·4	22	+ 1	Birr Castle.
b, West.	*a* Foynes	50	26th, 27th	35	30th	48·1	39·3	43·9	+ 1·8	25	8	5	0·31	- 0·49	*	*	*	*	*
	a Cahir .. .. M	50	26th	29	24th, 29th	46·2	35·8	41·2	0·0	12	26	5	0·43	—	*	*	*	*	*
	a Killarney	52	25th	33	29th	49·1	40·4	44·9	+ 2·5	27	4	6	0·53	- 0·84	*	*	*	*	*
	a Valencia	52	25th, 26th	33	29th	50·1	41·3	45·9	+ 1·5	30	2	6	0·69	- 0·55	9·6	- 3·1	16	- 5	Valencia.
	a Roche's Point ..	49	26th, 28th	38	24th, 30th	47·6	42·4	45·1	+ 1·7	22	0	4	0·15	- 0·85	13·7	—	23	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	52	29th	36	24, 25, 26th	48·4	40·1	44·4	- 1·1	25	5	1	0·02	- 0·66	26·7	+11·7	44	+19	Scilly.
	a Jersey, St. Aubins ..	48	30th	25	29th	44·1	28·1	36·4	- 6·2	6	52	1	0·01	- 0·65	34·6	+18·1	56	+29	St. Heliers.
	a Guernsey	51	25th	31	28th	47·5	35·4	41·7	- 1·6	15	29	1	0·01	- 0·69	28·9	+15·5	47	+25	Guernsey.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	— — ..				
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	39·1
	Crathes	7	22	34·8	36·1
	Balmoral	6	17	—	—
	West Linton	7	15	—	—
	Marchmont ..	7	16	34·4	—
2.	Cockle Park	7	11	33·9	38·9
	Durham	7	16	—	—
	York	—	—	35·5	41·4
	Hull	7	14	34·4	42·4
	Lincoln	—	—	33·9	40·9
	Rauceby	7	18	34·9	42·5
3.	Norwich	7	17	—	—
	Yarmouth	—	—	34·1	41·9
	Lowestoft	7	21	35·1	41·0
	Cambridge	7	16	35·0	42·1
	Clacton-on-Sea ..	7	21	36·8	43·5
	Southend	7	20	35·4	—
	Tottenham	7	21	—	43·4
4.	Harrogate	7	10	36·2	39·7
	Huddersfield ..	6	15	35·1	40·9
	Buxton	7	9	34·9	42·0
	Sheffield	7	11	34·6	41·5
	Nottingham	7	16	33·4	39·2
	Birmingham	7	11	36·8	44·1
	Oxford	7	15	—	—
	Hereford	7	14	—	—
	Cirencester	7	24	—	—
5.	Margate	6	22	36·5	41·5
	Greenwich	7	15	—	—
	Westminster ..	7	21	—	—
	Kew	7	16	35·3	43·4
	Canterbury	7	13	37·3	44·7
	Tunbridge Wells ..	6	15	35·4	—
	Wisley	7	18	35·4	42·4
	Worthing	7	20	35·8	43·9
	Portsmouth	6	11	36·6	44·3
6.	Glasgow	4	25	—	—
	Rothesay	—	—	—	42·8
	Colmonel	1	30	—	—
	Dumfries	7	16	—	—
	Douglas	4	27	—	—
7.	Aspatria	7	17	—	—
	Newton Rigg ..	7	14	35·3	39·8
	Burnley	7	16	33·8	41·0
	Southport	7	15	33·7	40·2
	Manchester City ..	6	19	34·3	42·5
	Bettws-y-Coed ..	5	21	35·9	43·4
8.	Llangammarch Wells	7	2	36·6	44·6
	Cardiff	7	19	35·5	43·2
	Clifton	7	23	—	—
	Bath	—	—	38·1	45·0
	Plymouth	6	18	37·6	—
9.	Armagh	1	30	40·1	43·8
	Markree	5	19	—	—
10.	Dublin, Trin. Coll. ..	4	24	39·7	44·0
11.	Guernsey, Brooklyn	4	25	39·8	46·3

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	44	42	43·7
	Kirkwall	43	40	42·2
	Wick	45	45	45·0
SCOTLAND, E.	Cromarty	43	41	42·0
	Penman Bay	41	39	39·6
	Aberdeen, Cove Bay ..	38	36	37·1
ENGLAND, N.E.	Burnmouth, Berwick ..	42	39	40·3
	Scarborough	39	35	37·9
ENGLAND, E.	Shipwash Lightship ..	40	39	39·6
	Margate	40	37	38·7
ENGLAND, S.E.	Eastbourne‡	40	38	38·6
SCOTLAND, W.	Lamlash	46	43	44·5
	Ballantrae	44	43	43·3
ENGLAND, N.W.	Port Erin	46	45	45·3
	Newquay	47	46	46·1
ENGLAND, S.W.	Plymouth‡	48	48	47·8
	Salcombe	48	46	47·1
IRELAND, N.W.	Sheephaven	46	45	45·7
	Teelin	46	43	44·7
IRELAND, S.W.	Cleggan	44	42	43·3
	Seafield	47	45	46·4
IRELAND, E.	.. ..			

‡ Only one observation each day.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

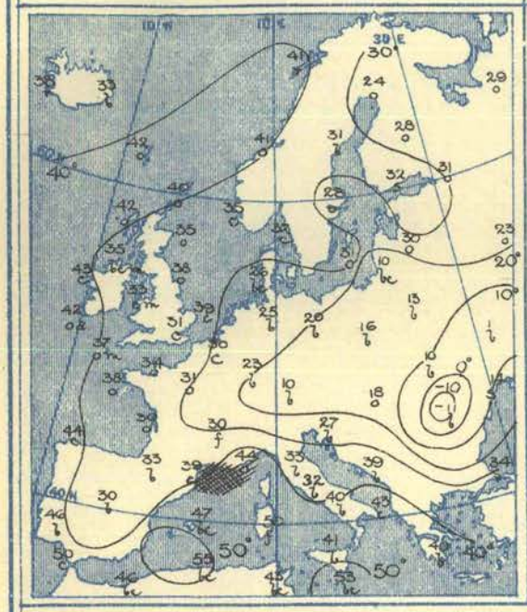
The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = [2]73°, Normal boiling point of water = [3]73°). The figure in the "hundreds" place [2] is not printed in the tables. Values at or below the freezing point of water (73°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Sunday, 24th January, 1909.

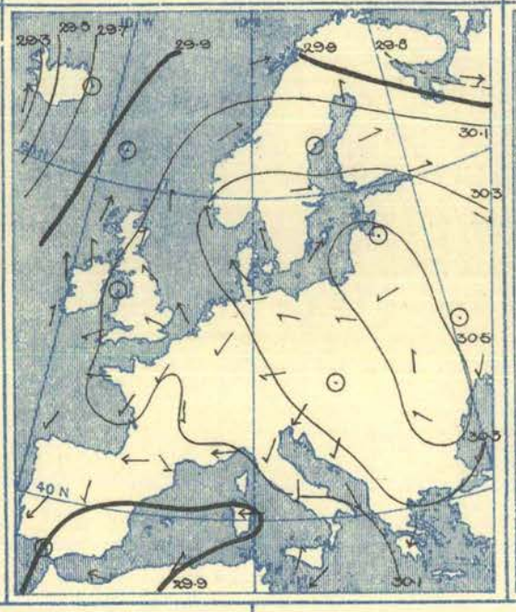
Temperature and Weather. 7 a.m.



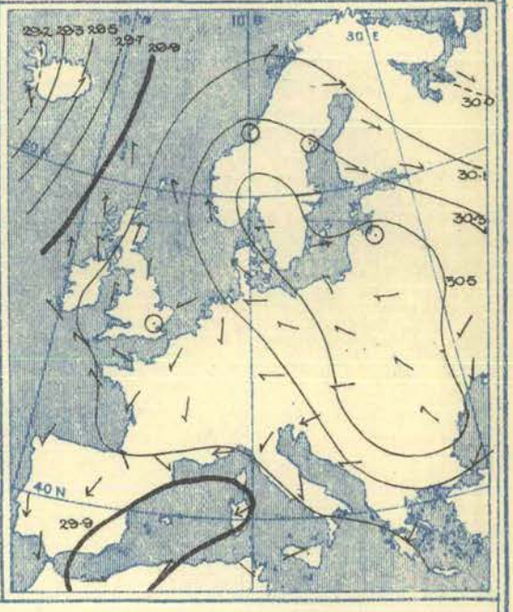
Weather in morning fair or fine and bright over the greater portion of our area, but overcast in some parts of these Islands, and also in a few localities on the Continent. Rain falling at Bodö, Constantinople, and Cagliari, and showers at Valencia (Ireland), and Castlebay, and snow at Helsingfors and Odessa. Rain experienced later in various parts of Spain and Algeria, and as much as 2·4 ins. at Cette; heavy snow falling at St. Petersburg.

Temperature risen in some parts of Russia, fallen in most other regions. Morning readings as low as −11° at Hermanstadt, and many degrees below the freezing point over Europe generally. Slight frost prevailing in several parts of Great Britain, and thermometer as low as 32° at Rome. Highest values 53° at Malta and 55° at Algiers. Maxima during day very little above 32° in England and below it over the major portion of central Europe and Russia. Thermometer only reaching 10° at Hermanstadt. Readings of about 60° recorded on the coast of Algeria. Frost very sharp at night in central England, and very severe in central Europe.

Barometer and Wind. 7 a.m.



6 p.m.

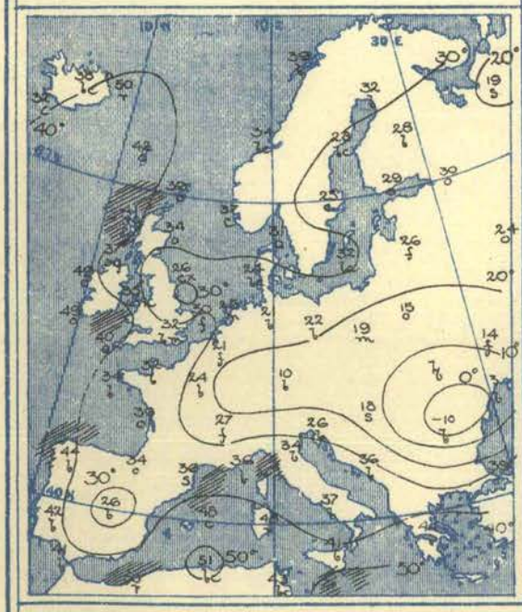


Wind in morning circulating anticyclonically over the greater part of our area. A light to fresh or strong breeze from some point between North and East prevailing over the Mediterranean region, and a strong South-West breeze at Bodö. No change of a general character during day, but wind increasing in force from the Southward in Iceland.

Barometer in morning ranging from above 30·5 in a very large high pressure system having its maximum over the eastern part of central Europe to less than 29·9 ins. in a shallow depression of irregular shape in the south of our area, to below 29·8 ins. over the White Sea, and to below 29·3 ins. in a disturbance to the westward of Iceland. Scarcely any change later; central portion of anticyclone extending further west and north-west.

Monday, 25th January, 1909.

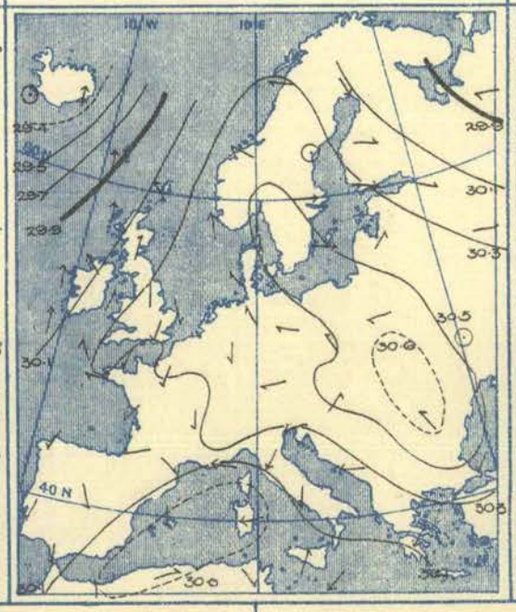
Temperature and Weather. 7 a.m.



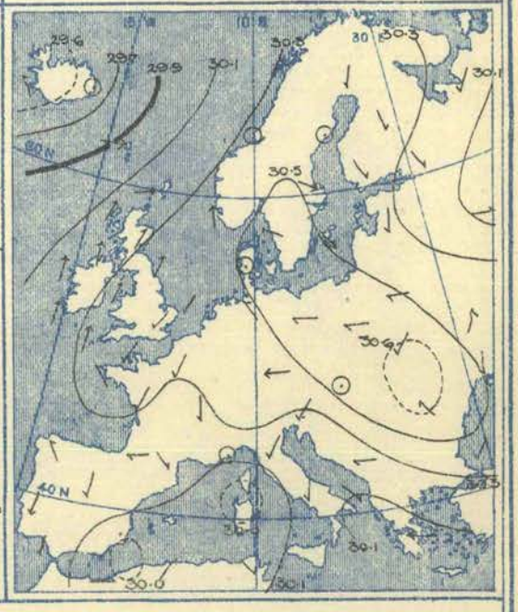
Weather in morning fair or fine in most regions, but overcast in various localities both in these Islands and on the Continent, with rain in the Hebrides and at a few places in the south of our area, and snow at Toulouse, Perpignan, Buda-Pesth, and Archangel. A certain amount of rain later in Algeria, at Rome, and a few other southern stations. A thunderstorm occurring at Nemours.

Temperature fallen generally, risen in the west and north of these Islands. Morning readings about 50° at some stations in the far south of our area, and very little below it in the west of Ireland. Below 32° in most parts of Great Britain, and below 20° over a large portion of the Continent; below 10° on the northern shores of the Black Sea, and as low as −10° at Hermanstadt. Thermometer remaining below 40° in many English localities, and below 32° over large tracts in central and eastern Europe. Maxima below 50° at Nice and only 43° at Cape Sicié, but about 60° in Algeria.

Barometer and Wind. 7 a.m.



6 p.m.

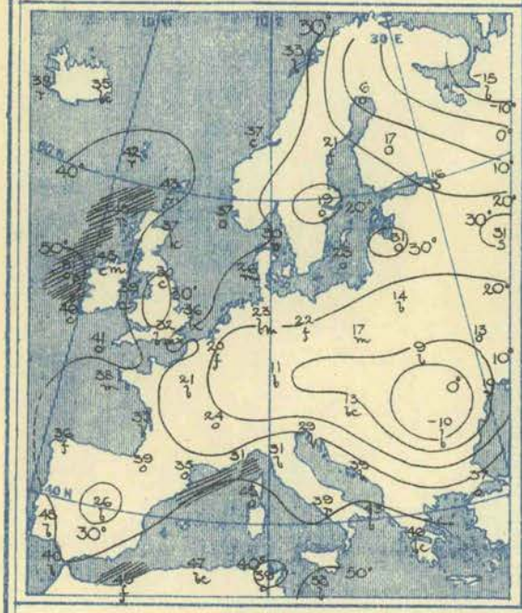


Wind in morning blowing a gale from South at Seydisfjord, and a fresh to high wind from that quarter on our extreme north-west coasts. An irregular anticyclonic circulation of very light winds prevailing over the greater portion of our area, and a cyclonic movement of light or moderate force over the Mediterranean. Very little change later as a whole, but gale at Seydisfjord giving place to a calm.

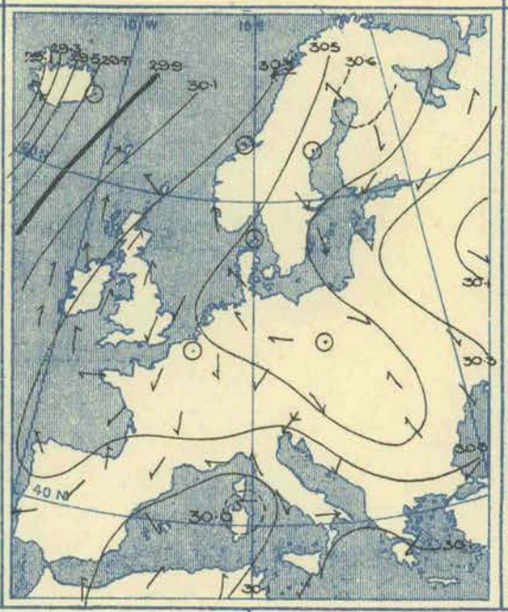
Barometer in morning above 30·6 ins. in a very large high pressure system having its centre towards the east of Europe. Below 30·0 ins. in a depression over the western portion of the Mediterranean, a little lower over the White Sea, and below 29·4 ins. over Iceland. No important modification in the general distribution during day. Pressure increasing rather briskly in Iceland, and slightly over the United Kingdom and the nearer regions of the Continent.

Tuesday, 26th January, 1909.

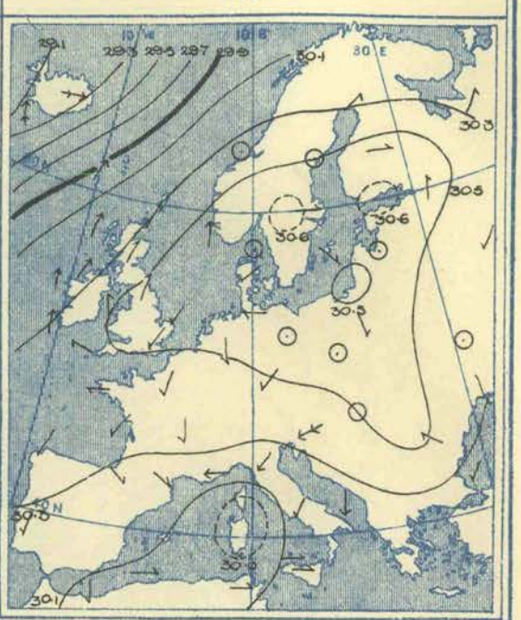
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning mostly fair or fine, but overcast in some localities, misty or foggy in others, and rainy on our extreme north-west coasts and at Naples. Snow falling at Uleaborg, Odessa, and Pesaro. Some rain experienced later in Algeria and some rain and snow in some parts of Italy. Measurement at Rome 0·75 in.

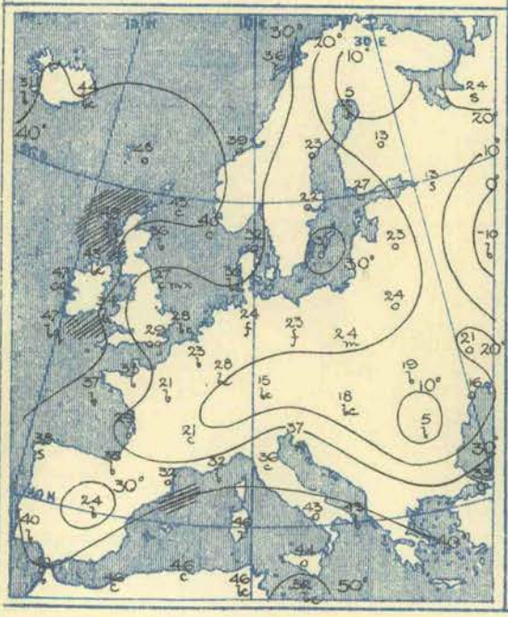
Temperature changed rather irregularly. Morning readings 25° or below in central England and most of France, below 20° over the greater portion of central and eastern Europe; readings as low as –10° at Hermanstadt and –15° at Archangel. Frost over most of Italy, and thermometer only 39° at Tunis. Highest values 53° at Malta and about 50° on the west coast of Ireland. Frost continuing all day in some parts of central England and throughout nearly the whole of central Europe, and maximum no higher than 37° at Rome.

Wind in morning light and anticyclonic except in the far south, east, and north-west of our area. A high wind from North-East prevailing at Greece and a gale from that quarter at Trieste. Strong Southerly winds or gales general in Iceland, and fresh to high winds from that direction on our extreme north-west coasts. No change of importance during day.

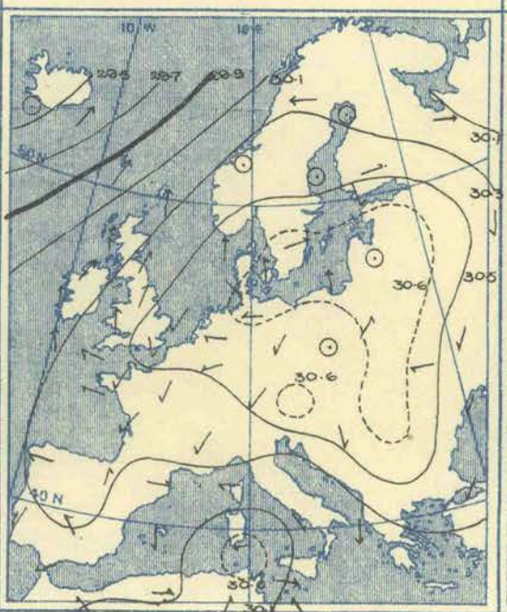
Barometer in morning ranging from above 30·5 ins. in a very large band extending from the northward and covering most of central Europe, to less than 30·0 ins. in a depression over Corsica and Sardinia, and to below 29·1 ins. in a large system off the west of Iceland. No material change occurring in the general distribution during day; Icelandic depression travelling north-eastwards, and that in the south remaining stationary.

Wednesday, 27th January, 1909.

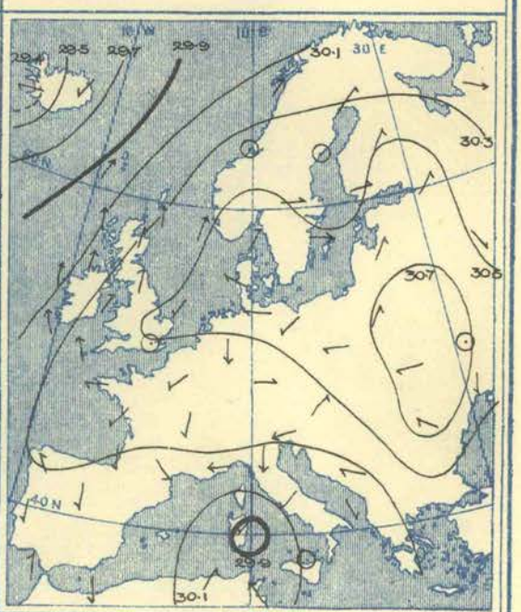
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in most parts of the Spanish Peninsula, France, and central Europe; generally overcast or very cloudy elsewhere, with much mist or fog in England, and rain at Cagliari. Snow falling at Corunna, Perpignan, and also in the extreme north and south of Russia. Rain later in Ireland and the Hebrides, as well as in Algeria and the Mediterranean Islands.

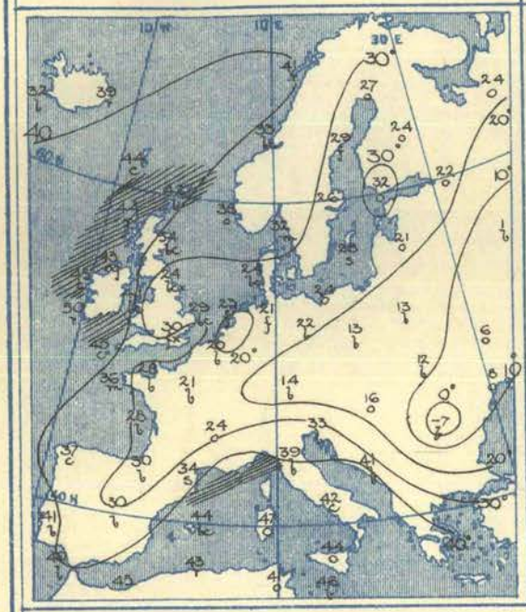
Temperature changed rather irregularly; fallen in most parts of these Islands. Readings in morning below 32° at nearly all stations in England, and below 20° over a very large portion of the Continent; as low as 5° at Hermanstadt and –10° at Moscow. Maxima during day below 32° in many parts of England and over the greater portion of central Europe, and below 60° except in the most southern parts of our area and at Valencia Island. Sharp frost at night over England, thermometer falling to about 22° in several places.

Wind in morning showing a very extensive anticyclonic circulation affecting nearly the whole of our area except the Mediterranean and Icelandic regions. South-Westerly current strong to high between Scotland and Iceland, and a high North-Easterly wind prevailing at Trieste. Wind increasing in force from the Southward on our western coasts during day, but little other change.

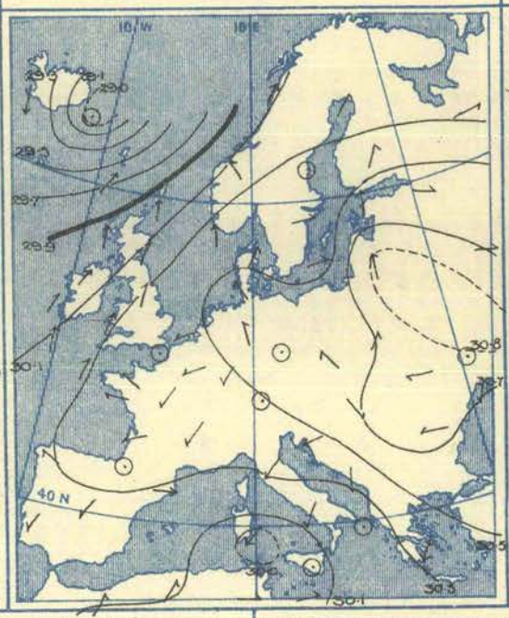
Barometer in morning above 30·6 ins. in the central space of a very large anticyclone covering the Baltic and Poland. Below 30·0 ins. in a depression over Sardinia, and below 29·5 ins. over the western half of Iceland. No important change in the distribution later, but pressure giving way slowly over the United Kingdom and the adjacent part of the Continent.

Thursday, 28th January, 1909.

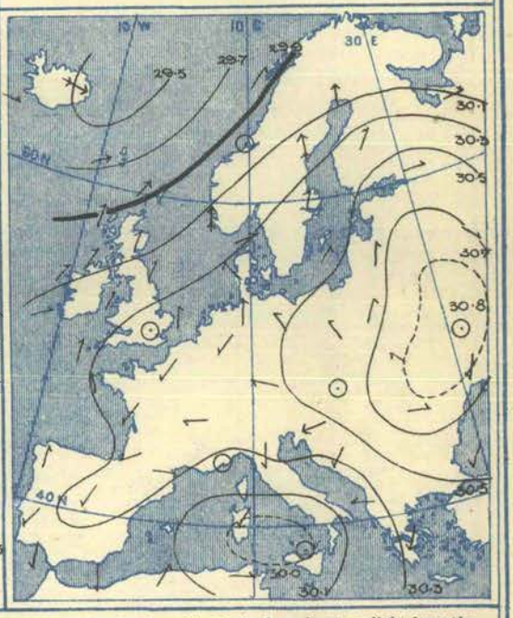
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning foggy or misty in many parts of England and Holland and in some German localities. Cloudy to fine and bright over our area generally, but rain falling in some parts of Ireland, the Hebrides, and at Bodö, and snow in the south-east of Sweden. Some rain experienced later in the west and north of our Islands and on some shores of the Mediterranean. Heavy amounts on the coast of North Africa. Some snow falling at Aumale and hail at Algiers.

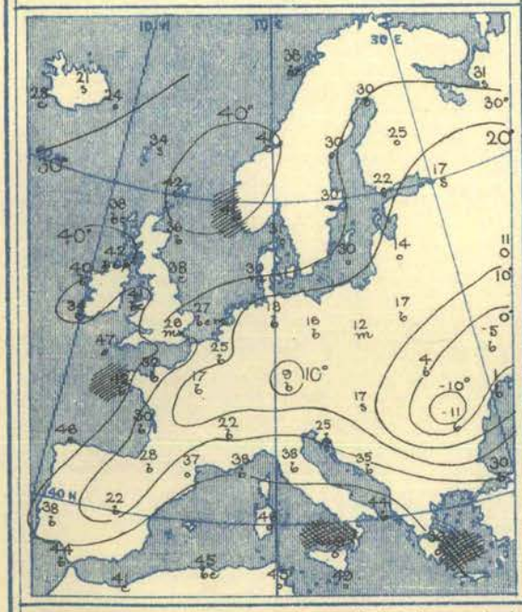
Temperature fallen in most regions. Morning readings below 30° in nearly all parts of England, less than 20° over a large portion of central and eastern Europe, -7° at Hermanstadt, and -15° at Kharkoff. About 50° in the south-west of Ireland and in the south of Corsica. Frost continuing all day over the greater portion of England and in nearly all regions in the central countries of the Continent, as well as at Lyons. Maxima above 50° at most stations in the far south, but only 41° at Aumale. Frost very sharp at night over the south-eastern corner of England.

Wind in morning moderate to fresh from the Northward in Iceland, moderate or light from the Southward over Ireland and Scotland, but very light from the North-Eastward over most of England. An anticyclonic circulation prevailing over Russia, and a moderate to high Easterly wind over Italy and the Adriatic. No change of a general character later in day; South-Westerly current extending slightly more over England by evening and during night. A gale from South setting in at Skudesnaes.

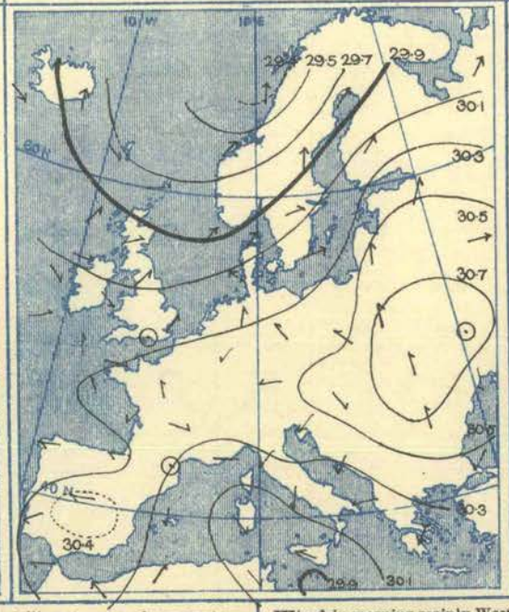
Barometer in morning ranging from above 30·8 ins. over a large part of Russia to below 30·0 ins. in a depression over the Mediterranean, and to less than 29·0 ins. in a large and deep system over Iceland and its vicinity. Icelandic depression travelling eastwards and extending southwards during day. A rise of the barometer taking place in the south-west of Ireland and in Iceland, and a decided fall in the north-east of Great Britain, the upper portion of the North Sea, and in Norway.

Friday, 29th January, 1909.

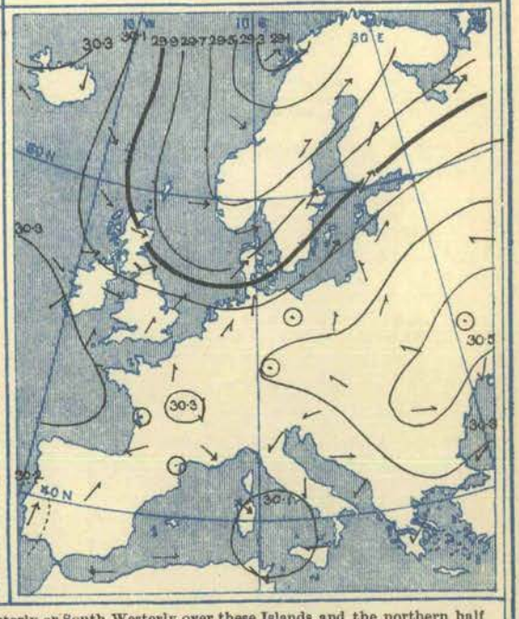
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine generally, but showers of rain falling at some of our western stations, steady rain at Skudesnaes and La Calle, and snow on the Gulf of Finland. Fog or mist over the south-east of England and the adjacent portion of the Continent. Some showers of rain, sleet, or snow experienced later in most parts of this country, and some heavier falls in various parts of northern Europe. Nearly 4 ins. of melted snow reported at Buda-Pesth.

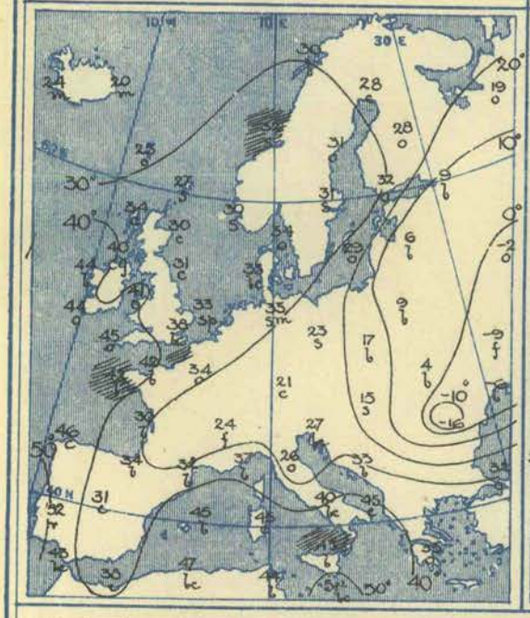
Temperature changed irregularly; risen in most parts of England, fallen in the south-eastern counties. Morning readings 46° on our south-west coast and about 26° on our south-east coast. Below 25° over nearly all parts of the Continent except the southern Peninsulas, and below zero in the south of Russia and in Transylvania. Thermometer rising to above 38° during day in almost all parts of these Islands, and thaw becoming general in the south-east. Frost continuing over the major portion of central Europe, and thermometer only touching 50° at La Calle and 43° at Aumale.

Wind in morning mainly Westerly or South-Westerly over these Islands and the northern half of the Continent, and between North and East over the Mediterranean region. A gale from North prevailing at Athens, but no great force reported elsewhere. Veering towards North-West later over most of this country and the North Sea, and increasing somewhat in force. Gale subsiding at Athens.

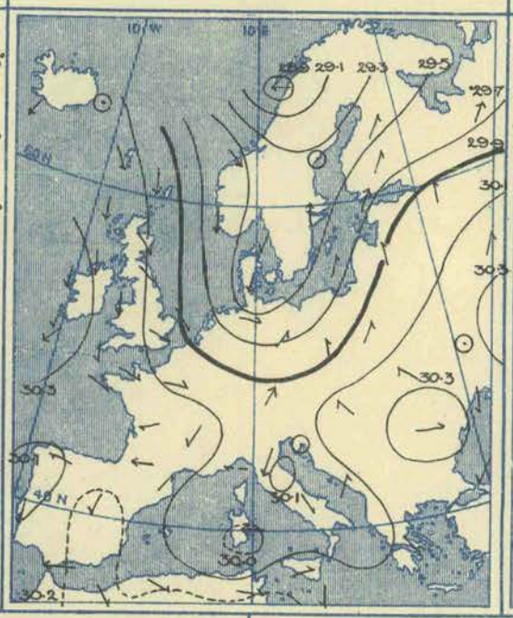
Barometer in morning ranging from above 30·7 ins. in a large anticyclone having its maximum over the south of Russia and its vicinity to below 29·9 ins. in a depression in the neighbourhood of Malta, and to below 29·4 ins. in a larger system between Norway and Iceland. A secondary disturbance appearing later over the south of Norway, and a brisk rise of the barometer setting in in Iceland. Pressure giving way very decidedly in Denmark and Holland.

Saturday, 30th January, 1909.

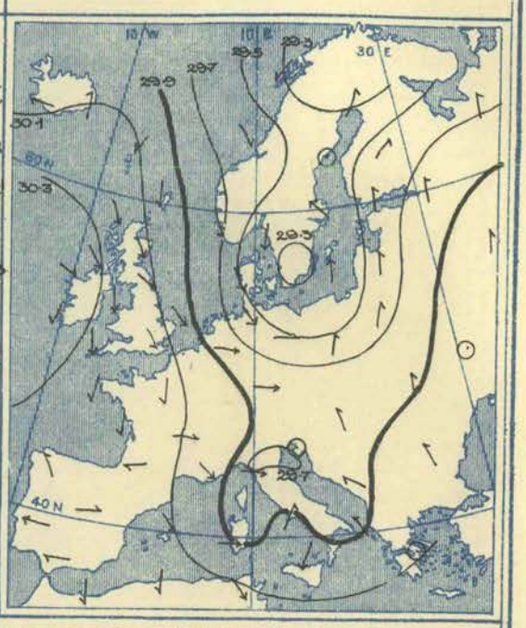
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in many places, but in an unsettled condition generally, with some snow in the north-east and east of these Islands and in various parts of central and northern Europe, rain at Lisbon, and a thunderstorm at Toulouse. Some rain or snow showers later in many parts of this country. Rain or snow falling in most localities on the Continent, but amounts not large. Nearly the whole of France continuing dry.

Temperature risen over Germany, France, the south-east of England and the Low Countries, fallen in most other regions. Morning readings below 35° at some of our own stations, and as low as 26° at Florence. Below 10° over a large portion of Europe, and below -10° at Hermanstadt. Thermometer above 45° at most places in the far south of our area, but only 38° at Nemours. Maxima during day less than 40° in various parts of Great Britain, and again below 32° over a large portion of the Continent, but above 50° on some shores of the Mediterranean, 57° at Malta, and 59° at Algiers.

Wind in morning moderate to fresh or strong from the Northward or North-Westward over these Islands and the north of France, light to fresh from the Southward in Germany, the Baltic region, and Finland. A light anticyclonic circulation prevailing over the south east of our area, and light or moderate cyclonic winds over Italy and its vicinity. No change of importance later in day.

Barometer in morning above 30·3 ins. to the westward of Ireland and also in the east of our area. Below 28·9 ins. in a large depression having its centre in the far north of Norway, and relatively low over the whole of Scandinavia and Denmark. A separate depression forming later over the south of Sweden, and some irregularly shaped disturbances also appearing over the Mediterranean and Italy. Pressure increasing in the south of this country, but decreasing again on the north-west coasts and also rather decidedly in Iceland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees from North through East) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Jan. 25th, 5.37 p.m. to 6.0 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	71° 78% 157°, 2	71·8° 73% 168°, 3						72° 72% 172°, 3	450	Fine, cloudless, cold. Light breeze in morning. Light air later. Negative temp. gradient.
2	Jan. 26th, 4.52 p.m. to 6.48 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	72° 82% Calm.	72·5° 77% 214°, 1	73° 74% 209°, 1	73·5° 68% 200°, 2				73·5° 65% 203°, 2	1,080	Fine, bright, cloudless. Calm. Negative temp. gradient up to 610 m.
3	Jan. 27th, 9.45 a.m. to 12.58 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	74° 90% 60°, 4	73° 100°, —	120°, —					120°, —	800	Clock stopped. Very small change of temp. Humidity, 100 to 60%. Probably an inversion. Clear; very steady wind, weak.
4	Jan. 27th, 2.23 p.m. to 6.20 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	74·7° 57% 180°, 4	75·2° 53% 183°, 9	75·6° 48% 186°, 12	75·2° 37% 176°, 13	74° 32% 173°, 13			71·5° 31% 169°, 13	1,940	Calm early morning, gentle breeze later. Small negative temp. gradient up to 600 m.
5	Jan. 28th, 11.20 a.m. to 3.33 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	76° 58% 180°, 5	76·8° 37% 196°, 12	76·5° 33% 194°, 14	74° 27% 196°, 16	71° 25% 202°, 17	69·2° 25% 212°, 18	66·7° 24% 218°, 17	66° 23% 222°, 17	2,700	Fine morning, overcast later. Gentle steady breeze. Negative temp. gradient up to 460 m. Cloud level not reached.
6	Jan. 29th, 10.38 a.m. to 12.24 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	78·5° 100% 225°, 6	 100% 235°, 9	100% 260°, 16	100% 260°, 16				73 ?° 100°/₀ 260°, 16	1,200	Clock stopped, temp. between 79° and 73° F. Under wind veering during ascent, 315° at 3 p.m.
7	Jan. 29th, 1.45 p.m. to 5.20 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	75·5° 95% 270°, 5	74·5° 98% 270°, 11	74° 100% 270°, 14	70·7° 85% 274°, 15	67·5° 65% 278°, 16	66° 52% 278°, 17		65° 40% 280°, 17	2,370	Heavy fog early. Light air in morning, gentle breeze later. Lower clouds (nimbus) at 490 m.
8	Jan. 30th, 10.12 a.m. to 1.12 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	75° 90% 360°, 6	74° 95% 10°, 12	73° 95% 15°, 14	70° 95% 20°, 16	67° 95% ?, 18	66° 80% 340°, 20			2,000	Half-overcast, fracto-cu. to almost clear. Lowest clouds, 900 m. Lower wind very erratic.
9	Jan. 30th, 10.45 a.m. to 11.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	74° 90% 320°, 6	73·5° 90% 340°, 9	70° 95% 360°, 15	67·5° 95% 350°, 15				65° 90% 340°, 18	1,300	Clear, overcast, then clear. Increase of wind velocity and change of direction at about 650 m.
10	Jan. 30th, 11.55 a.m. to 1.22 p.m.	Howard Estate, Glossop, 336 m.	Temperature Humidity .. Wind	72° 50% 337°, 11	70·3° 51% 337°, 13	69·7° 52% 337°, 14	64° 70° 332°, 17				61·5° 80% 335°, 15	1,300	Fine, bright, cold. Fresh to strong wind, variable. Sharp temp. gradient.

Erratum.—Week ending January 16th. Ascent at Pyrton Hill, No. 14, was on January 16th, not 15th.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10
No. of Kites	—	—	2	3	2	1	2	2	1	1
Area of Surface (sq. metres) ..	—	—	9·4	21·3	14·2	—	14·2	9·4	4	7·0
Capacity of Balloon (cub. metres)	2·9	3·4	—	—	—	7	—	—	—	—
Length of Wire (metres) ..	600	1,200	1,750	2,700	5,300	1,600	4,300	8,000	1,500	1,800

63, Victoria Street, London, S.W. *February 3rd, 1909.* W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 5. FIFTH WEEK, SUNDAY JANUARY 31ST TO SATURDAY FEBRUARY 6TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was of a somewhat changeable character, but during the greater part of the period it was fair and dry over the eastern and southern districts, and occasionally very bright. In Ireland, the north and west of Scotland, and the north-west of England the condition was more rainy.

Temperature was above the average, the greatest excess being 4°·2 in Ireland N. The highest of the maxima were registered in most districts either on the 3rd or 4th, and ranged from 59° in Ireland S. and 58° in England E. to 52° in Scotland N. and W. The lowest of the minima, which were recorded on Jan. 31st at most stations, varied from 24° in Scotland N. and England S.E. to 31° in Ireland N. and the English Channel. The lowest grass temperatures reported were 14° at Llangammarch Wells, 16° at Birmingham, 17° at Newton Rigg, 18° at Cockle Park (Morpeth), 19° at West Linton and Kew, and 20° at Cambridge.

Mean Temperature of the Sea.—The figures differed little as a whole from those of the corresponding week of last year, but were considerably higher on the south-west coast of England. The actual values ranged from about 48° at Plymouth and Salcombe to below 40° on some parts of our east and north-east coasts, and to below 38° at Aberdeen.

Rainfall exceeded the normal in Scotland and the northern districts of England and Ireland, but was less elsewhere, the fall being very slight over the greater part of England. More than 1·5 in. was measured in the west of Scotland on Tuesday, and as much as 2·55 ins. at Glencarron; at Stonyhurst 2·0 ins. was measured on Wednesday, the fall being preceded by 0·80 in. on Tuesday and followed by 0·74 in. on Thursday, making an aggregate of 3·54 ins. for the three days.

Bright Sunshine differed little from the normal generally, but was much in excess in Scotland N. The highest percentages of the possible duration were 25 in Scotland N., and 24 in the Midland Counties and England N.W., and the lowest 16 in Ireland N. and 18 in Scotland W.

Barometer and Wind.—During the earlier days of the week the barometer was highest over the Bay of Biscay region and lowest over Scandinavia, and the North-Westerly wind that prevailed over these Islands blew freshly at times. Later on the distribution of pressure became favourable for Westerly winds, and the current from that quarter blew very strongly on several parts of our western coasts. The only depression that travelled directly across this country was a small secondary system that passed quickly eastward over the northern counties of Ireland and England on Thursday night, at the same time increasing in intensity. In its rear a fresh to whole gale from the North-Westward was experienced along the east coast of England during the morning of Friday, but the disturbance moved on very quickly to Germany and Poland, and the gale was therefore of short duration.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 44.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1 Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Unusual	Moderate	Unusual	Moderate	Unusual	Moderate	Unusual	Unusual	Unusual
	Rainfall ...	Moderate	Heavy	Moderate	Light	Light	Light	Heavy	Heavy	Very light	Heavy	Light	Light
	Sunshine ...	Abundant	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Abundant	Moderate	Scanty	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1908–9. 10 weeks from Nov. 29th, 1908.	Warmth ...	3 * 1	3 * 1	2 * 3	4 * 2	2 * 2	4 * 2	3 * 1	4 * 2	4 * 3	5 * 0	4 * 1	5 * 2
	Rainfall ...	2 * 2	2 * 4	0 * 4	2 * 6	2 * 5	3 * 6	4 * 1	2 * 4	3 * 6	3 * 2	3 * 4	4 * 6
	Sunshine ...	4 * 2	4 * 1	2 * 2	2 * 5	2 * 4	2 * 3	3 * 2	6 * 1	3 * 2	3 * 3	1 * 4	3 * 3

PAST SEASONS.

WINTER, 1907–8. Dec. 1st–Feb. 29th. 13 weeks.	Warmth ...	4 * 2	4 * 1	3 * 4	4 * 3	4 * 3	5 * 4	5 * 3	4 * 4	3 * 3	5 * 3	5 * 3	4 * 2
	Rainfall ...	4 * 4	6 * 5	4 * 6	5 * 5	4 * 8	3 * 7	7 * 3	8 * 4	3 * 4	6 * 3	2 * 3	4 * 5
	Sunshine ...	4 * 3	5 * 1	3 * 2	5 * 5	3 * 4	6 * 2	1 * 3	6 * 2	3 * 3	3 * 4	3 * 3	2 * 3
SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	3 * 6	4 * 4	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIFTH WEEK—January 31st to February 6th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	52	24	44·2	34·0	39·1	+ 1·2	6	− 1	29	− 8	6	0	1·54	+0·11	14	+ 6	25	+10
Eastern																		
1. SCOTLAND, EAST	53	25	44·7	33·6	39·2	+ 1·4	8	− 1	32	− 9	4	0	0·74	+0·17	13	− 1	22	− 3
2. ENGLAND, N.E.	56	27	46·4	35·4	40·9	+ 1·7	12	+ 2	26	− 5	3	− 2	0·46	+0·10	12	− 3	20	− 4
3. ENGLAND, EAST	58	27	46·9	36·1	41·5	+ 2·6	14	+ 4	24	− 10	4	0	0·13	−0·25	12	− 4	20	− 7
4. MIDLAND COUNTIES	57	25	47·5	36·1	41·8	+ 2·7	15	+ 3	25	− 9	2	− 2	0·13	−0·38	15	+ 1	24	+ 2
5. ENGLAND, S.E.	56	24	47·9	36·2	42·1	+ 1·7	25	+ 11	16	− 9	2	− 3	0·07	−0·46	15	+ 1	23	+ 1
Western																		
6. SCOTLAND, WEST	52	29	45·9	37·0	41·5	+ 1·6	11	− 1	21	− 6	5	+ 1	1·47	+0·44	10	− 1	18	− 2
7. ENGLAND, N.W.	57	28	46·6	37·8	42·2	+ 2·2	19	+ 8	12	− 13	4	− 1	0·99	+0·29	14	+ 3	24	+ 5
8. ENGLAND, S.W.	54	27	48·2	38·5	43·4	+ 1·8	25	+ 8	10	− 10	3	− 2	0·14	−0·68	12	− 2	19	− 4
9. IRELAND, NORTH	55	31	48·8	40·8	44·9	+ 4·2	25	+ 11	3	− 20	6	+ 1	1·20	+0·43	9	− 3	16	− 5
10. IRELAND, SOUTH	59	28	50·7	39·8	45·3	+ 2·9	32	+ 11	6	− 11	3	− 1	0·29	−0·53	13	− 1	22	− 1
11. ENGLISH CHANNEL	53	31	50·2	40·8	45·5	+ 1·1	30	+ 6	3	− 5	4	− 1	0·11	−0·55	14	− 3	23	− 5

THE SEASON (**Winter**). Aggregates, &c., for the Period of 10 Weeks, November 29th, 1908, to February 6th, 1909.

0. SCOTLAND, NORTH	56	21	*	*	*	*	95	+21	235	− 98	57	+ 4	14·39	+1·26	54	+ 2	11	0
Eastern																		
1. SCOTLAND, EAST	58	16	*	*	*	*	79	+ 7	353	− 48	37	− 4	5·45	−0·69	95	+12	20	+ 2
2. ENGLAND, N.E.	56	11	*	*	*	*	60	− 22	364	+ 37	34	− 3	2·71 ‖	−1·71	101	+ 9	19	+ 2
3. ENGLAND, EAST	58	7	*	*	*	*	76	− 14	313	− 60	37	− 2	2·88	−1·27	100	− 9	18	− 2
4. MIDLAND COUNTIES	57	3	*	*	*	*	88	−15	348	− 27	37	− 1	3·16	−1·97	88	− 4	16	− 1
5. ENGLAND, S.E.	56	3	*	*	*	*	141	+ 5	242	− 33	35	− 4	4·01	−1·41	113	+ 6	20	+ 1
Western																		
6. SCOTLAND, WEST	56	22	*	*	*	*	105	− 3	219	− 42	51	+ 4	11·91	+0·70	73	− 4	14	− 1
7. ENGLAND, N.W.	57	16	*	*	*	*	108	− 1	243	− 20	43	+ 1	6·30	−0·82	111	+32	21	+ 6
8. ENGLAND, SW	57	13	*	*	*	*	186	+ 6	147	− 50	44	− 1	6·56	−2·56	119	+10	21	+ 2
9. IRELAND, NORTH	55	24	*	*	*	*	182	+48	152	− 76	53	+ 4	8·84	+0·71	90	− 2	17	− 1
10. IRELAND, SOUTH	59	25	*	*	*	*	283	+69	108	− 63	50	+ 4	7·46	−2·18	98	−13	18	− 2
11. ENGLISH CHANNEL	57	25	*	*	*	*	329	+49	49	− 18	42	− 7	6·85 ‖	−0·87	150	+11	26	+ 2

THE YEAR.—Aggregates, &c., for the Period of 5 Weeks, January 3rd to February 6th, 1909.

0. SCOTLAND, NORTH	56	24	*	*	*	*	24	− 10	139	− 35	29	+ 2	7·40	+0·66	33	+ 3	13	+ 1
Eastern																		
1. SCOTLAND, EAST	58	18	*	*	*	*	23	− 14	185	− 16	19	− 1	3·44	+0·54	58	+ 8	23	+ 3
2. ENGLAND, N.E.	56	17	*	*	*	*	27	− 14	189	+ 24	15	− 4	1·21 ‖	−0·77	73	+ 22	27	+ 8
3. ENGLAND, EAST	58	17	*	*	*	*	30	− 13	177	− 11	17	− 2	0·93	−1·03	80	+ 19	28	+ 7
4. MIDLAND COUNTIES	57	13	*	*	*	*	33	− 19	192	+ 6	15	− 4	1·13	−1·33	64	+ 12	23	+ 4
5. ENGLAND, S.E.	56	17	*	*	*	*	57	− 4	140	− 2	13	− 6	0·96	−1·61	79	+ 22	27	+ 7
Western																		
6. SCOTLAND, WEST	53	22	*	*	*	*	37	− 15	116	− 18	25	+ 2	6·19	+0·91	44	+ 1	16	0
7. ENGLAND, N.W.	57	16	*	*	*	*	46	− 4	132	− 2	20	− 1	3·31	−0·12	69	+ 25	25	+ 9
8. ENGLAND, S.W.	54	13	*	*	*	*	71	− 13	104	0	18	− 4	2·05	−2·09	76	+ 17	26	+ 6
9 IRELAND, NORTH	55	27	*	*	*	*	76	+ 9	77	− 39	27	+ 3	4·49	+0·60	45	− 5	17	− 2
10. IRELAND, SOUTH	59	25	*	*	*	*	118	+ 15	59	− 27	22	0	2·91	−1·56	55	− 4	20	− 1
11. ENGLISH CHANNEL	54	25	*	*	*	*	129	+ 4	40	+ 1	18	− 6	2·30 ‖	−1·12	87	+ 13	29	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

‖ The corresponding Values for some previous weeks slightly altered owing to further information.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation, (generally 7 a.m. or 9 a.m.) at Stations marked *a* and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked Ⓜ is supplied by the Royal Meteorological Society, and that for Stations marked Ⓢ is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations.	Temperature. Highest observed. Date.	Temperature. Lowest observed. Date.	Temperature. Mean for the week. Of Highest each day.	Temperature. Mean for the week. Of Lowest each day.	Temperature. Mean for the week. For whole of each day.	Temperature. Difference of Mean for the Week from Aver'ge.	Temperature. Accumulated Heat for the Week (in Day degrees.) Above 42°	Temperature. Accumulated Heat for the Week (in Day degrees.) Below 42°	Rainfall. No. of Rain-Days.	Rainfall. Rainfall in the Week.	Rainfall. Difference from Average.	Bright Sunshine. Number of Hours recorded.	Bright Sunshine. Difference from Average.	Bright Sunshine. Percentage of possible duration.	Bright Sunshine. Difference from Average.	Names of Stations.
		°	°	°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
	p Balta Sound S	*46 2nd*	*30 31st*	*40·1*	*33·1*	*36·6*	—	*0*	*38*	*6*	*0·34*	—	*13·1*	—	*33*	—	*Balta Sound.*
	a Sumburgh Head ..	47 2nd	24 31st	41·4	32·0	36·7	− 1·9	0	37	7	0·81	− 0·03	13·4	+ 3·6	25	+ 7	Deerness.
	a Stornoway	50 2nd	31 31st	46·0	36·4	41·2	+ 2·2	11	22	6	1·02	− 0·07	20·7	+10·1	38	+18	Stornoway.
	a Castlebay, Barra Isd.	*50 2nd*	*36 31st*	*47·1*	*40·7*	*43·9*	+ *2·9*	*19*	*4*	*6*	*1·00*	—	*9·7*	—	*17*	—	*Castlebay.*
a, Islands.	*a* Wick	48 2nd	26 31st	43·1	31·9	37·5	− 0·2	3	36	6	0·70	+ 0·13	*	*	*	*	
	p Strathpeffer	51 2nd, 3rd	30 31st, 6th	43·7	34·7	39·2	+ 2·2	5	27	5	1·41	+ 0·72	11·1	− 0·2	20	0	Strathpeffer.
	p Glencarron ..	50 3rd	28 31st	44·1	34·1	39·1	+ 2·6	6	29	6	3·56	+ 1·52	*	*	*	*	
	p Fort Augustus S	49 2nd, 3rd	28 6th	45·1	33·2	39·2	+ 1·6	9	33	5	1·25	+ 0·10	9·8	+ 2·9	18	+ 5	Fort Augustus.
b, Main-land.	*p* Fort William S	52 3rd	30 31st, 6th	45·9	35·7	40·8	+ 1·7	11	25	5	2·05	+ 0·09	*	*	*	*	
	p Gordon Castle S	53 3rd	29 6th	45·0	33·6	39·3	+ 1·1	8	32	3	0·61	+ 0·11	*12·4*	—	*22*	—	*Gordon Castle.*
	a Nairn	51 2nd	28 31st	44·7	34·3	39·5	+ 2·2	8	29	5	0·52	+ 0·07	10·6	—	19	—	Nairn.
	a Aberdeen	52 2nd	29 31st	44·3	34·3	39·3	+ 1·5	6	29	5	0·17	− 0·35	13·1	− 1·4	23	− 3	Aberdeen.
	a Balmoral .. S	52 2nd	27 31st	45·0	31·9	38·5	+ 4·6	8	38	5	0·47	− 0·21	10·1	—	18	—	Crathes S.
1. SCOTLAND, E.	*p* Crieff .. .. S	53 3rd	29 31st	46·1	34·4	40·3	+ 2·9	11	30	4	0·61	− 0·26	14·6	—	26	—	Balruddery
	a Leith	53 3rd	31 31st	45·9	36·3	41·1	+ 2·0	11	23	3	0·64	+ 0·26	16·4	+ 6·3	28	+11	Edinburgh.
	a West Linton .. S	49 3rd	25 31st	42·0	31·1	36·6	+ 0·3	0	38	4	1·80	—	*17·4*	—	*30*	—	*West Linton.*
	p Marchmont .. S	53 3rd	26 31st	44·6	33·1	38·9	+ 2·4	7	33	3	1·11	+ 0·59	10·2	− 2·8	18	− 5	Marchmont.
	a Alnwick Castle ..	55 3rd	29 31st	45·7	35·4	40·6	+ 2·6	10	26	2	1·06	+ 0·57	14·2	—	25	—	Cockle Park.
	a Shields	56 3rd	30 31, 1, 6th	45·9	34·3	40·1	+ 1·6	11	30	3	0·58	+ 0·24	*8·7*	*− 0·2*	*15*	*0*	*Newcastle.*
	p Durham	55 3rd	30 1, 2, 6th	46·3	35·2	40·8	+ 3·5	12	27	2	0·53	+ 0·19	9·9	− 3·3	17	− 6	Durham.
a, North.	*p* Rounton .. M	53 3rd	29 31st, 2nd	46·3	34·8	40·6	+ 3·7	12	29	2	0·28	− 0·11	*	*	*	*	
	p Scarborough .. M	55 3rd	31 31st	47·4	37·3	42·4	+ 3·9	23	13	5	0·70	+ 0·26	3·9	—	7	—	Scarborough.
	p York	54 3rd	28 31st	47·4	36·5	42·0	+ 3·9	15	15	2	0·07	− 0·31	11·7	+ 1·4	20	+ 2	York.
2. ENGLAND, N.E.	*a* Spurn Head	51 3rd	31 31st	44·9	36·4	40·7	+ 2·0	8	22	3	0·83	+ 0·55	*	*	*	*	
b, South.	*a* Lincoln	55 3rd	29 31st	47·3	33·9	40·6	+ 3·2	15	32	4	0·07	− 0·29	15·5	—	26	—	Skegness.
	a Fulbeck	53 4th	27 31st	46·7	34·4	40·6	+ 2·8	13	30	3	0·03	− 0·35	15·1	—	25	—	Rauceby.
													11·9	—	*20*	—	*Lowestoft.*
	p Cromer	53 3rd, 4th	32 2nd	46·5	37·0	41·8	+ 4·9	13	21	6	0·12	—	9·2	—	15	—	Cromer.
	p Hillington .. M	54 4th	29 2nd	46·3	36·0	41·2	+ 3·9	12	24	? 2	? 0·06	− 0·38	9·2	− 4·2	15	− 7	Hillington.
a, North.	*a* Yarmouth	53 3rd, 4th	30 31st, 1st	46·4	35·7	41·1	+ 3·6	12	25	5	0·33	− 0·01	11·7	—	19	—	Yarmouth.
	a Norwich	53 3rd, 4th	30 31st	46·2	36·5	41·4	+ 4·1	12	23	6	0·29	—	*	*	*	*	
3. ENGLAND, E.	*p* Geldeston	55 4th	29 31st	47·4	35·9	41·7	+ 3·6	15	25	5	0·13	− 0·21	9·9	− 4·8	16	− 8	Geldeston.
	p Cambridge	58 4th	27 31st	47·7	35·7	41·7	+ 3·8	16	26	2	0·08	− 0·24	14·4	+ 0·3	24	+ 1	Cambridge.
	a Felixstowe																*Felixstowe.*
b, South.	*a* Clacton-on-Sea ..	55 4th	29 31st, 1st	46·9	35·0	41·0	+ 2·6	14	28	3	0·06	—	16·4	—	27	—	Clacton.
	a Rothamsted ..	55 4th	27 31st	47·0	35·0	41·0	+ 3·7	14	28	2	0·11	− 0·35	15·5	+ 2·2	25	+ 4	Rothamsted.
	a Shoeburyness ..	*54 4th*	*29 31st*	*48·0*	*36·7*	*42·4*	+ *3·7*	*25*	*15*	*2*	*0·03*	*− 0·25*	*15·3*	—	*25*	—	*Southend.*
	p Tottenham	56 4th	30 31st	47·5	38·4	43·0	+ 4·2	22	10	2	0·06	—	12·6	—	20	—	Tottenham.
	a Harrogate	49 3rd, 4th	28 31st	44·4	35·3	39·9	+ 3·2	7	25	2	0·15	− 0·36	16·0	—	27	—	Harrogate.
	a Bawtry	54 4th, 5th	30 31st, 2nd	46·4	36·9	41·7	+ 4·1	12	21	1	0·01	− 0·37	14·9	+ 3·9	25	+ 7	Worksop.
	p Buxton .. M	*49 4th*	*27 2nd*	*43·4*	*33·9*	*38·7*	+ *3·4*	*4*	*30*	*5*	*1·63*	+ *0·61*	*10·5*	—	*18*	—	*Buxton.*
a, East.	*a* Nottingham	55 4th	28 1st	47·9	35·7	41·8	+ 4·1	17	26	3	0·12	− 0·28	9·5	—	16	—	Nottingham.
	p Birmingham, Edgbn	57 4th	31 31st, 2nd	46·9	38·0	42·5	+ 4·8	20	11	2	0·21	− 0·22	8·8	—	14	—	Birmingham.
4. MIDLAND COUNTIES.	*a* Raunds .. M	56 4th	26 31st	48·0	34·7	41·4	+ 4·2	17	30	1	0·13	—	*	*	*	*	
	a Oxford	55 4th	30 31st, 2nd	47·9	36·4	42·2	+ 3·5	25	15	3	0·10	− 0·30	12·1	− 1·3	20	− 2	Oxford.
	a Cheadle .. M	53 4th	28 31st	45·9	35·3	40·6	+ 3·7	11	26	2	0·41	− 0·11	19·5	—	33	—	Sheffield.
b, West.	*p* Shrewsbury	55 4th	29 2nd	49·2	37·6	43·4	+ 4·8	28	12	3	0·17	—	*	*	*	*	
	a Hereford .. M	57 4th	28 2nd	49·4	36·3	42·9	+ 4·4	30	16	1	0·01	− 0·49	*	*	*	*	
	a Cirencester	52 4th	25 2nd	47·2	33·8	40·5	+ 3·0	15	32	3	0·06	− 0·44	18·8	+ 5·3	30	+ 9	Cirencester.
	a Bath	53 3rd, 4th	25 2nd	49·7	36·7	43·2	+ 3·6	31	15	2	0·03	− 0·48	18·4	—	30	—	Bath.
													18·0	—	*29*	—	*Ramsgate.*
	p Kew	56 4th	30 31st	47·9	37·6	42·8	+ 3·8	24	12	1	0·04	− 0·33	12·9	+ 1·5	21	+ 2	Kew.
	a Marlborough ..	52 4th	24 2nd	48·1	34·5	41·3	+ 3·8	17	31	4	0·12	− 0·43	14·2	+ 2·6	23	+ 4	Marlborough.
	a Margate	56 4th	32 31st	47·9	38·2	43·1	+ 4·0	24	11	3	0·09	− 0·26	12·9	− 0·6	21	− 1	Margate.
	a Wisley, Surrey ..	56 4th	28 31st	48·2	36·6	42·4	+ 3·0	25	15	1	0·08	—	12·9	—	21	—	Wisley.
5. ENGLAND, S.E.	*a* Swarraton .. M	55 4th	24 2nd	48·1	34·2	41·2	+ 3·4	17	32	3	0·09	− 0·46	18·1	—	29	—	Worthing.
	a Tunbridge Wells M	54 4th	27 31st	46·3	34·9	40·6	+ 2·8	12	28	2	0·09	− 0·45	9·9	− 3·0	16	− 5	Tunbridge Wells.
	a Dungeness	50 4th	25 31st	45·9	32·6	39·3	− 0·1	11	36	4	0·11	− 0·28	16·8	—	27	—	Littlestone.
	p Hastings	53 4th	28 31st	46·6	36·9	41·8	+ 2·1	13	21	1	0·05	− 0·45	*14·4*	*− 1·6*	*23*	*− 3*	*Hastings.*
	p Southampton ..	56 4th	29 31st, 2nd	49·6	37·4	43·5	+ 3·2	30	13	3	0·05	− 0·50	13·9	− 0·5	22	− 1	Southampton.
	a Ventnor	52 4th, 5th	29 31st	50·3	38·7	44·5	+ 3·1	31	9	1	0·01	− 0·53	17·7	+ 1·9	28	+ 3	Ventnor.
LONDON	*a Westminster* ..	*56 4th*	*29 31st*	*48·9*	*36·6*	*42·8*	+ *3·6*	*28*	*15*	*3*	*0·09*	*− 0·28*	*6·6*	*+ 0·6*	*11*	*+ 1*	*Westminster.*
	a Greenwich ..	*56 4th*	*29 31st*	*48·5*	*37·3*	*42·9*	+ *4·1*	*26*	*13*	*2*	*0·06*	*− 0·29*	*7·7*	*− 4·1*	*12*	*− 7*	*Greenwich.*
	p Laudale	52 2nd	32 6th	?46·2	?37·6	?41·9	+ 1·9	12	18	5	0·46	− 1·29	*	*	*	*	
	a Poltalloch .. S	50 2nd, 3rd	32 6th	46·7	36·1	41·4	+ 2·7	13	24	5	1·97	+ 0·99	*	*	*	*	
	p Glasgow	51 3rd	32 31st	45·2	37·3	41·3	+ 2·9	9	19	4	1·51	+ 0·81	7·2	− 0·5	12	− 1	Glasgow.
a, SCOTLAND. W. ..	*p* Rothesay	52 3rd	33 6th	47·3	38·7	43·0	+ 3·6	21	9	6	1·59	+ 0·66	*	*	*	*	
	a Kilmarnock	52 2nd	29 6th	44·9	35·0	40·0	+ 0·9	8	27	3	2·66	—	*12·4*	—	*21*	—	*Kilmarnock.*
6.	*a* Colmonell .. S	48 2nd	34 31st, 2nd	41·6	36·9	39·3	+ 0·6	0	19	5	1·53	+ 0·58	*	*	*	*	
	p Dumfries .. S	52 3rd	31 31st	46·0	35·7	40·9	+ 2·5	11	25	4	1·17	+ 0·42	*	*	*	*	
	p Cally, Gatehouse S	50 6th	30 1st, 6th	47·5	36·5	42·0	+ 3·8	15*	15	4	1·34	+ 0·34	*	*	*	*	
b, ISLE OF MAN ..	*p* Douglas	51 3rd, 4th	36 31, 1, 6th	47·8	39·6	43·7	+ 3·3	22	7	5	0·97	+ 0·18	13·4	− 0·6	22	− 1	Douglas.
													18·8	—	31	—	Hoylake.
	p Aspatria	49 3rd	30 31st	44·5	36·7	40·6	+ 2·9	7	20	4	1·45	+ 0·85	17·4	—	30	—	Aspatria.
	p Newton Rigg ..	51 3rd	28 31st	45·4	34·6	40·0	+ 3·4	10	28	4	1·78	+ 1·04	14·9	+ 3·1	25	+ 5	Newton Rigg.
	p Stonyhurst	48 3, 4, 5th	30 2nd	44·7	36·6	40·7	+ 2·8	8	21	4	3·67	+ 2·80	15·5	+ 4·5	26	+ 8	Stonyhurst.
a, ENGLAND, N.W. ..	*p* Blackpool .. M	47 3rd, 4th	32 2nd	44·6	37·5	41·1	+ 2·5	7	18	4	0·47	− 0·10	20·0	+ 8·0	33	+13	Blackpool.
	p M'nch'ster, Prestwich	51 3rd, 4th	29 31st	46·3	36·3	41·3	+ 3·3	12	23	5	1·11	+ 0·48	*12·9*	*+ 5·8*	*22*	*+10*	*Prestwich.*
7.	*a* Liverpool (Bidston)	54 4th	34 31st	47·4	39·0	43·2	+ 3·5	21	8	3	0·21	− 0·25	19·4	—	32	—	*Liverpool.*
	a Hawarden Bridge ..	57 4th	33 2nd	49·6	37·5	43·6	+ 3·5	30	13	2	0·13	− 0·22	*20·1*	*+ 7·9*	*34*	*+13*	*Southport.*
													11·0	—	*18*	—	*Rhyl.*
	p Llandudno .. M	52 4th	36 1st, 2nd	46·5	40·7	43·6	+ 2·3	17	4	5	0·38	− 0·16	9·8	− 4·1	16	− 7	Llandudno.
b, NORTH WALES ..	*a* Holyhead ..	52 3rd	37 31st	48·0	41·4	44·7	+ 3·2	21	2	5	0·21	− 0·42	11·8	—	19	—	Aberdovey.
	p Bettws-y-Coed ..	52 3rd, 4th	30 1st, 2nd	48·7	38·0	43·4	+ 3·0	27	11	6	0·49	—	5·4	—	9	—	Bettws-y-Coed.
													11·7	—	19	—	Aberystwyth.
	a Llangammarch Wells	54 4th	27 2nd	47·5	35·7	41·6	+ 3·8	15	26	5	0·42	—	9·0		15		Llangammarch Wells.
a, SOUTH WALES ..	*a* Pembroke	52 3rd	38 31st	48·7	42·3	45·5	+ 3·2	25	0	1	0·02	− 0·67	14·3	− 0·7	23	− 1	Pembroke.
	a Cardiff	51 4th	30 2nd	48·0	37·7	42·9	+ 3·3	24	12	3	0·07	− 0·69	*14·1*	—	*24*		*Cardiff.*
													16·4	*+ 0·2*	*27*	*0*	*Tenby.*
8.	*a* Clifton	51 3rd, 4th	31 2nd	48·0	37·9	43·0	+ 3·3	24	11	2	0·07	− 0·53	*14·0*		*23*		*Clifton.*
	a Shaftesbury .. M	51 4th	29 31st	46·8	35·8	41·3	+ 3·5	13	25	1	0·03	− 0·55	*	*	*	*	
	a Arlington	49 3rd, 4th	30 2nd	46·4	36·6	41·5	+ 2·3	12	22	4	0·34	− 0·64	12·2	− 2·8	19	− 4	Newquay.
b, ENGLAND, S.W. ..	*a* Cullompton .. M	54 3rd	27 2nd	49·6	36·0	42·8	+ 2·9	31	17	4	0·16	− 0·53	9·0	− 4·2	14	− 7	Cullompton.
	a Portland Bill ..	50 3, 4, 5th	34 31st	48·6	40·1	44·4	+ 2·8	25	5	0	0·00	—	*16·8*	—	*27*	—	*Weymouth.*
	p Plymouth	53 3rd, 4th	33 31st, 6th	49·2	39·6	44·4	+ 2·4	27	7	4	0·16	− 0·55	12·4	− 2·0	20	− 3	Plymouth.
	p Falmouth	53 3rd	39 31st, 6th	49·6	43·1	46·4	+ 3·3	31	0	3	0·12	− 0·78	14·0	− 1·7	22	− 3	Falmouth.
													16·0	*0·0*	*25*	*0*	*Torquay.*
	a Malin Head	50 3rd	38 31st	47·1	41·7	44·4	+ 3·6	18	1	7	2·10	+ 1·54	*	*	*	*	
9. IRELAND, N.	*a* Blacksod Point ..	55 3rd	38 6th	49·9	43·6	46·8	+ 4·3	34	0	7	1·17	+ 0·17	*	*	*	*	
a, West.	*p* Markree Castle ..	53 3rd, 4th	31 6th	49·4	39·8	44·6	+ 5·1	27	6	5	0·85	+ 0·05	9·8	− 2·3	16	− 4	Markree Castle.
b, East.	*p* Armagh	53 3rd	35 31st, 6th	49·0	40·5	44·8	+ 5·1	26	4	4	0·73	+ 0·18	9·0	− 3·6	15	− 6	Armagh.
	a Donaghadee	54 3rd	35 31st	48·7	38·6	43·7	+ 3·3	26	10	5	1·14	+ 0·56	*	*	*	*	
	p Dublin, City	55 4th	36 31st, 6th	50·1	41·7	45·9	+ 4·1	29	1	1	0·07	− 0·43	11·9	− 3·5	20	− 6	Phœnix Park.
a, East.	*a* Kilkenny	55 4th	29 6th	49·9	38·1	44·0	+ 3·6	30	11	2	0·02	− 0·68	*	*	*	*	
	a Waterford	57 4th	30 6th	51·0	38·9	45·0	+ 3·8	34	9	1	0·01	− 0·87	*	*	*	*	
10. IRELAND, S.	*a* Birr Castle	53 2, 3, 4th	31 31st, 6th	49·9	37·1	43·5	+ 3·6	31	14	3	0·05	− 0·52	13·7	0·0	23	0	Birr Castle.
	a Foynes	56 4th	30 6th	50·5	40·5	45·5	+ 3·5	31	4	4	0·22	− 0·56	*	*	*	*	
b, West.	*a* Cahir .. .. M	57 4th	28 6th	50·2	39·0	44·6	+ 3·5	31	8	4	0·21	—	*	*	*	*	
	a Killarney	59 4th	31 6th	52·7	40·5	46·6	+ 4·2	39	4	4	0·76	− 0·58	*	*	*	*	
	a Valencia	55 3rd, 4th	34 6th	51·6	40·7	46·2	+ 1·9	35	4	3	1·13	− 0·12	9·8	− 4·6	16	− 8	Valencia.
	a Roche's Point ..	54 3rd, 4th	33 6th	50·4	41·6	46·0	+ 2·7	30	1	3	0·10	− 0·87	17·0	—	27	—	Ballinacurra.
	a Scilly, St. Mary's ..	53 3rd, 4th	42 31st, 1st	50·6	44·0	47·3	+ 2·0	37	0	4	0·15	− 0·52	14·5	− 2·1	23	− 3	Scilly.
11. ENGLISH CHANNEL ..	*a* Jersey, St. Aubins ..	52 3, 4, 5th	31 31st	50·0	37·0	43·5	+ 0·9	32	14	6	0·11	− 0·54	14·0	− 4·9	22	− 8	St. Heliers.
	a Guernsey	52 5th	35 31st	49·9	41·4	45·7	+ 2·3	28	2	2	0·06	− 0·62	14·6	− 1·2	23	− 2	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 15·0 hrs. (0·0 hrs.), 24 % (0 %); Bournemouth, 17·8 hrs., 28 %; Bognor, 18·7 hrs., 30 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	— —				
	— —				
	— —				
1.	Aberdeen	—	—	—	38·7
	Crathes	5	25	35·6	37·8
	Balmoral	5	23	—	—
	West Linton	4	19	—	—
	Marchmont	4	24	35·1	—
2.	Cockle Park	6	18	35·9	38·6
	Durham	4	26	—	—
	York	—	—	37·1	40·3
	Hull	5	25	35·9	41·6
	Lincoln	—	—	37·1	39·7
	Rauceby	4	23	37·6	41·7
3.	Norwich	4	25	—	—
	Yarmouth	—	—	36·3	41·3
	Lowestoft	4	25	37·2	40·0
	Cambridge	4	20	37·1	40·9
	Clacton-on-Sea	5	24	38·7	42·5
	Southend	5	22	38·3	—
	Tottenham	3	25	—	42·1
4.	Harrogate	4	25	36·9	38·7
	Huddersfield	3	26	35·3	40·0
	Buxton	4	21	35·3	40·6
	Sheffield	2	23	36·2	40·3
	Nottingham	3	24	36·9	38·2
	Birmingham	4	16	39·7	43·3
	Oxford	5	22	—	—
	Hereford	4	21	—	—
	Cirencester	5	26	—	—
5.	Margate	2	30	38·8	40·5
	Greenwich	3	22	—	—
	Westminster	5	21	—	—
	Kew	4	19	37·5	42·1
	Canterbury	4	25	37·8	43·5
	Tunbridge Wells	4	22	36·5	—
	Wisley	3	23	38·4	41·3
	Worthing	5	22	37·9	42·7
	Portsmouth	3	20	39·0	43·1
6.	Glasgow	3	25	—	—
	Rothesay	—	—	—	42·4
	Colmonel	0	31	—	—
	Dumfries	4	24	—	—
	Douglas	2	29	—	—
7.	Aspatria	5	23	—	—
	Newton Rigg	5	17	36·8	39·1
	Burnley	4	21	35·6	39·8
	Southport	2	22	36·3	39·1
	Manchester City	?	?	36·5	41·3
	Bettws-y-Coed	1	28	39·3	42·1
8.	Llangammarch Wells	4	14	39·1	43·5
	Cardiff	4	25	39·0	41·9
	Clifton	3	26	—	—
	Bath	—	—	40·0	44·3
	Plymouth	4	21	41·5	—
9.	Armagh	1	30	42·1	43·5
	Markree	3	26	—	—
10.	Dublin, Trin. Coll.	1	24	42·5	43·7
11.	Guernsey, Brooklyn	3	28	42·9	45·2

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	41	42·1
	Kirkwall	42	36	40·3
	Wick	45	45	45·0
SCOTLAND, E.	Cromarty	43	40	41·6
	Pennan Bay	42	39	40·6
	Aberdeen, Cove Bay	39	36	37·6
ENGLAND, N.E.	Burnmouth, Berwick	43	39	40·9
	Scarborough	43	37	39·3
ENGLAND, E.	Shipwash Lightship	41	39	39·7
	Margate	42	35	38·5
ENGLAND, S.E.	Eastbourne‡	43	38	40·4
SCOTLAND, W.	Lamlash	45	43	44·3
	Ballantrae	44	43	43·9
ENGLAND, N.W.	Port Erin	46	45	45·3
ENGLAND, S.W.	Newquay	47	46	46·3
	Plymouth‡	49	48	48·4
	Salcombe	48	46	47·6
IRELAND, N.W.	Sheephaven	46	45	46·0
	Teelin	47	44	46·0
IRELAND, S.W.	Cleggan	46	43	44·6
	Seafield	49	45	46·8
IRELAND, E.				

‡ Only one observation each day.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟿ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in three years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

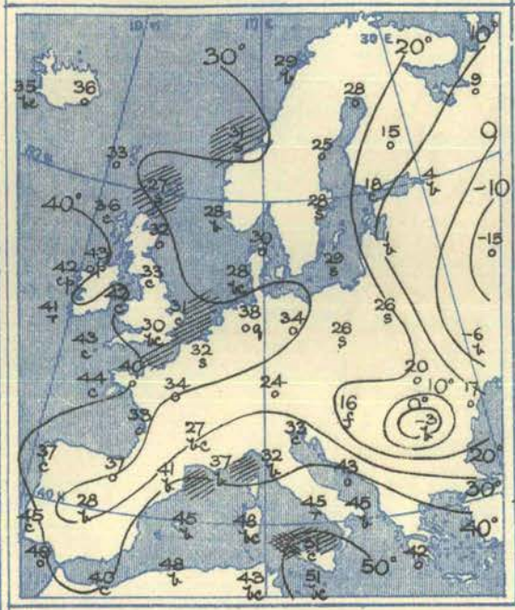
The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = [2]73°, Normal boiling point of water = [3]73°). The figure in the "hundreds" place [2] is not printed in the tables. Values at or below the freezing point of water (73°) are printed in heavy type.

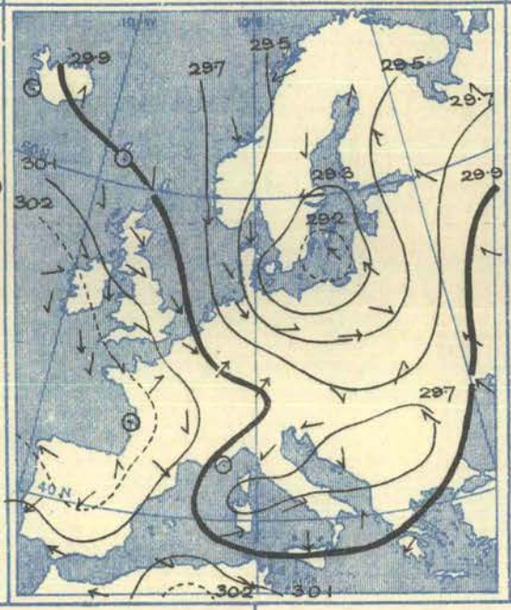
Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Sunday, 31st January, 1909.

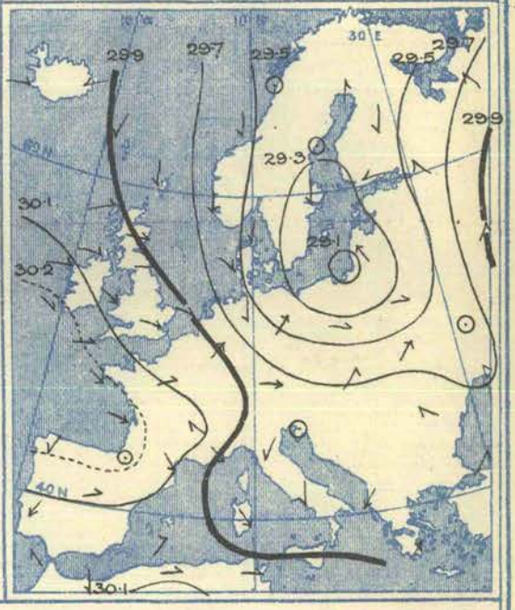
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast in most regions, but fair to fine and bright over a large portion of the Mediterranean area. Rain falling at Rome, and snow in the north-east of Scotland and also at some central and northern stations on the Continent. A little snow later in the east and north of Great Britain, and slight rain in several other localities. Some rain at many places in the south of our area, and some snow in the south of Russia, various spots in central Europe, and in the north of Holland.

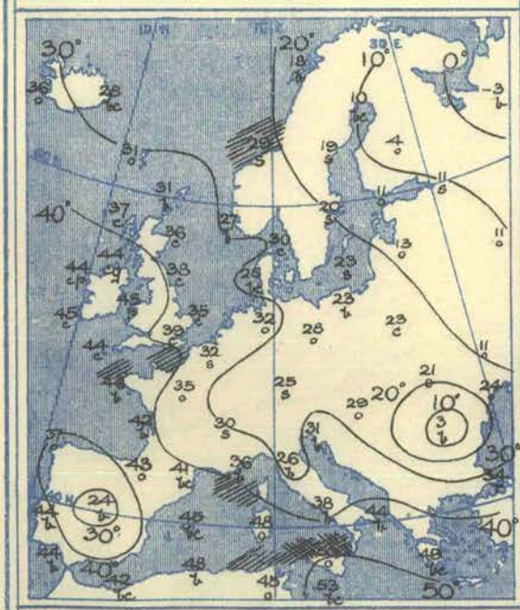
Temperature risen at most places in the southern half of the Continent, fallen elsewhere. Readings in morning ranging from about 50° at a few places in the far south to about the freezing point over Great Britain, and to much below it over the major portion of the Continent. Below zero both in Transylvania and central Russia. Thermometer rising to 60° at some stations in the extreme south of our area during day, but remaining below 50° over Italy and France, below 40° in many parts of England and Scotland, and below 32° in the central countries.

Wind in morning showing an extensive cyclonic circulation around the Baltic region and a smaller cyclonic movement over Italy and its vicinity. Northerly current blowing a gale over the Skager Rack and strongly over the North Sea. Fresh to high winds from various directions prevailing over the Mediterranean. Decreasing in force later in day in the Skager Rack, but increasing to a gale on the coast of North Germany.

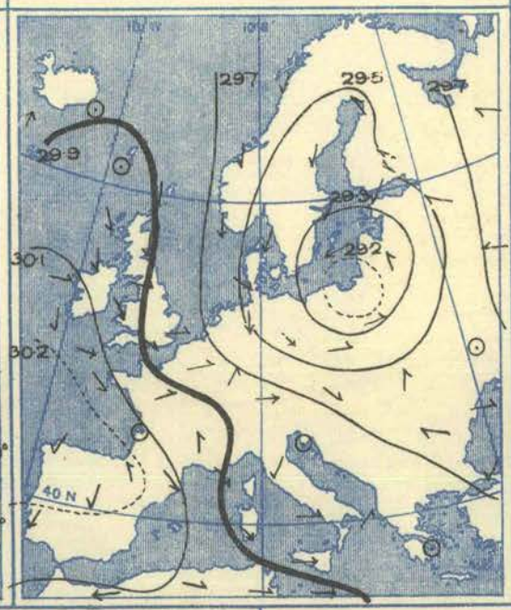
Barometer in morning above 30·2 ins. over the western and south-western portion of our area, and above 30·0 ins. in the east. Below 29·2 ins. in a depression having its minimum over the Baltic, and less than 29·7 ins. in an elongated disturbance extending from Sardinia to Transylvania. Pressure decreasing slightly in the United Kingdom, and a shallow secondary disturbance appearing in the extreme north-west. Main depression moving slowly eastwards.

Monday, 1st February, 1909.

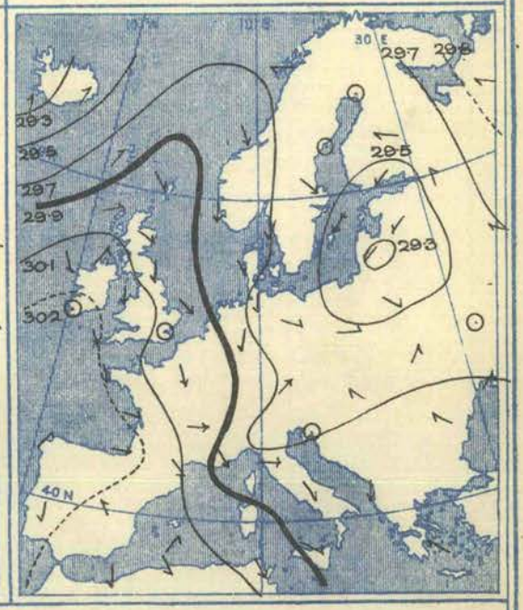
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright over the greater part of the Mediterranean and also in the extreme north of our area, but much cloud prevailing over the intervening regions, with showers at some of our own stations, and snow at various places in central and northern Europe. Rain falling at Constantinople and Patras. More or less precipitation later over a considerable portion of our area, but not in large quantity; largest measurement 0·55 in. of rain at Patras.

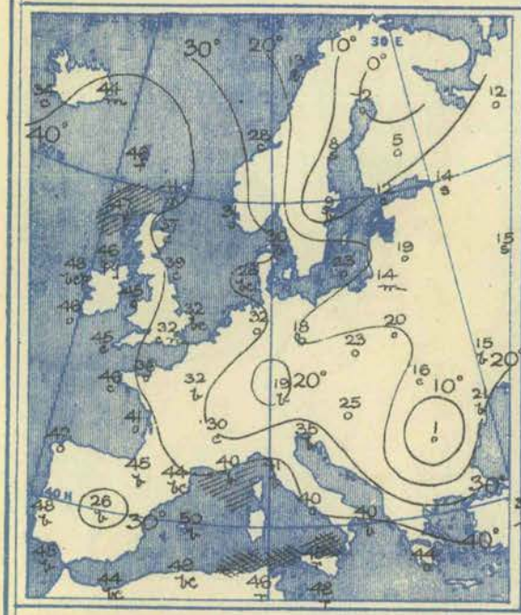
Temperature risen in most regions, fallen in the north of Europe as well as in North Germany. Morning readings about 40° in these Islands, above 45° on most shores of the Mediterranean, and as high as 53° at Malta. Below 32° over nearly the whole of the mainland of Europe, below 10° in some localities, and as low as -3° at Archangel. Rising to above 45° in the west and south-west of these Islands during day, but continuing below 32° over much of central Europe, and only touching 14° at St. Petersburg. Maxima about 60° at a few stations in the extreme south of our area.

Wind in morning showing a most extensive cyclonic circulation occupying nearly the whole of our area. Fresh or strong in places, but little force as a whole. A light Southerly breeze prevailing in Iceland. Wind backing towards South-West in the north and north-west of these Islands by evening, but not much change elsewhere. A gale from the North-Westward setting in at Wisby.

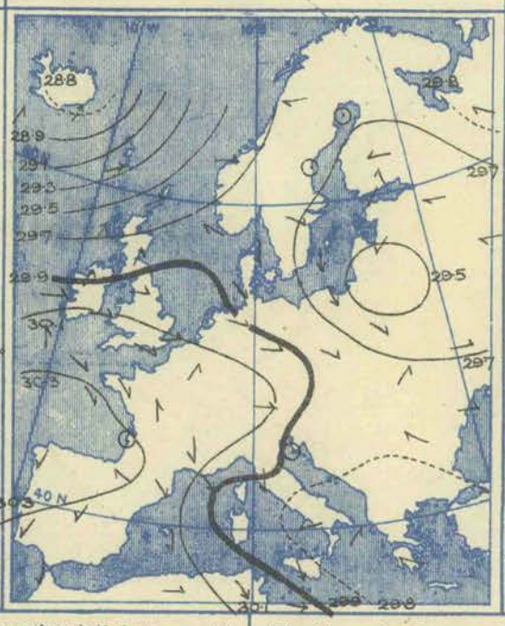
Barometer in morning below 29·2 ins. in a large depression centred over East Prussia and the adjacent portion of the Baltic; increasing to above 30·2 ins. over the Bay of Biscay and the northern half of the Peninsula. A very brisk fall taking place during day in Iceland, and and becoming somewhat less deep.

Tuesday, 2nd February, 1909.

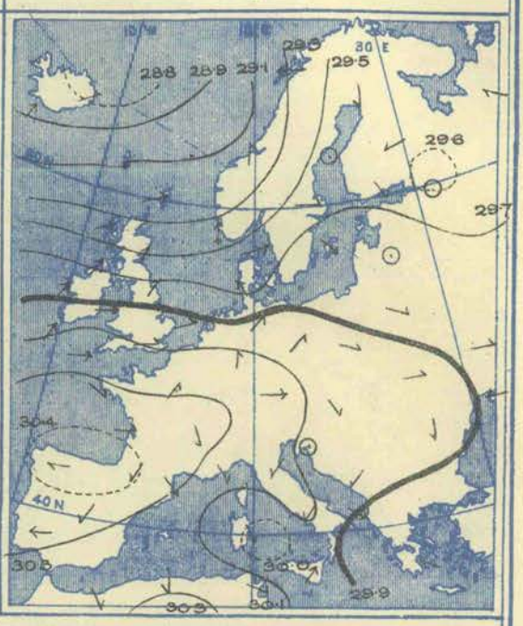
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast at most places in the northern half of our area, with rain on our most north-western coasts and snow at some stations on the Continent. Fine or fair over the greater part of southern Europe and the Mediterranean, but rainy at Bilbao, Palermo, Malta, and Tunis. Slight rain later in the west and north of these Islands and at a few places in the far south of our area, and heavy falls of snow in some parts of central Europe and Scandinavia.

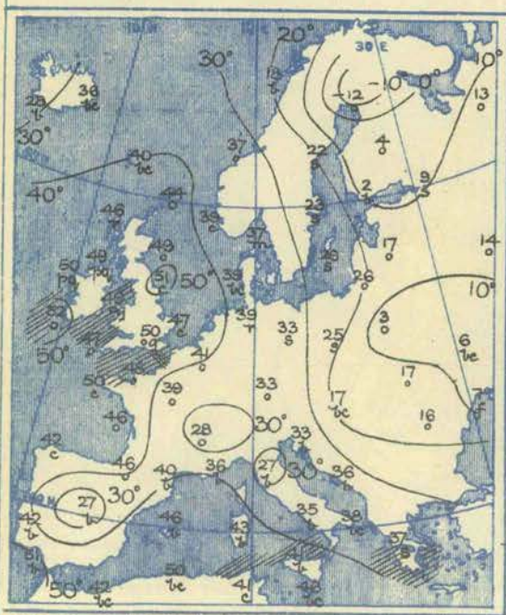
Temperature fallen generally, risen in Ireland and Scotland. Readings in morning about 50° at some of the most southern stations, and very little below it on our extreme north-west coasts. About 32° in the south-east of England and the north of France, but much below it over the Continent generally, and below 20° over a large area. Maxima during day below 45° in most English localities, and less than 32° in various parts of central Europe. Thermometer remaining below 50° at several places in the south of France and in Italy, but touching 60° on the coast of Algeria and the south coast of Spain.

Wind in morning showing a well marked anticyclonic movement in the south-west of our area, and an equally well marked cyclonic circulation over Russia and its vicinity. Northerly current high on some shores of the Baltic. A light to fresh or strong Westerly to South-Westerly breeze prevailing over the United Kingdom and between these Islands and Iceland, and moderate or fresh North-Westerly breezes over the Mediterranean. Increasing somewhat in force later on our west and north-west coasts, and blowing a gale at Skudesnaes.

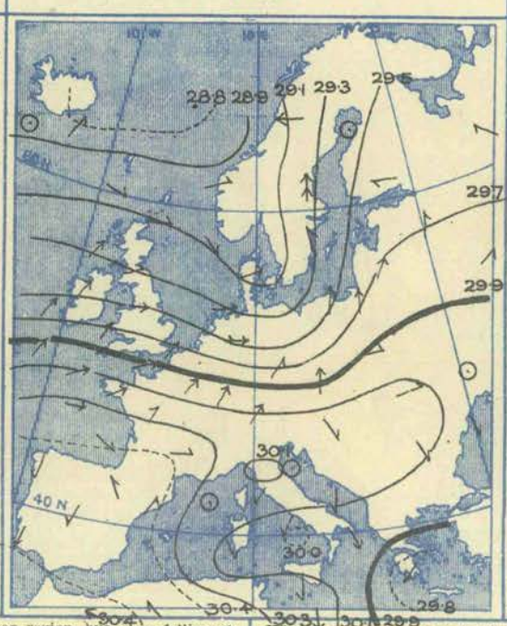
Barometer above 30·3 ins. in an anticyclone centred over the Bay of Biscay, below 29·5 ins. in a large but not deep depression over Russia, relatively low in the south-east of our area, and below 28·8 ins. in a large disturbance over Iceland and its neighbourhood. No great change in the general distribution later in day; Russian depression becoming less well-defined and a fresh fall of the mercury setting in in the west of Iceland and also in the west and north-west of these Islands.

Wednesday, 3rd February, 1909.

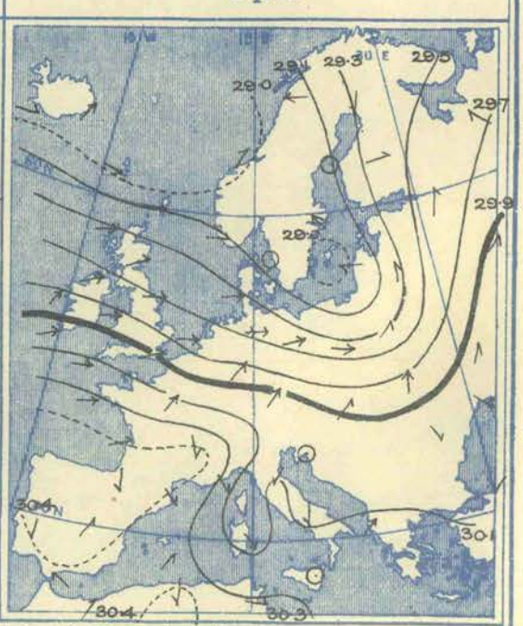
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in most places over the Mediterranean region, but snow falling at Patras. Generally overcast elsewhere, with rain on our north-west coasts, on the southern shores of the North Sea, and in Denmark, and snow in various parts of central and northern Europe. A little rain later in the north and west of these Islands, and considerable quantities of rain or snow in the central countries of our area; nearly an inch measured at Aix-la-Chapelle and Buda-Pesth.

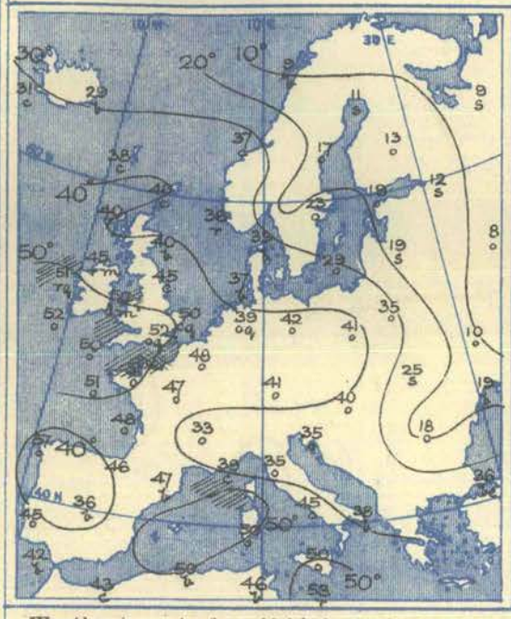
Temperature risen very decidedly over these Islands and the nearer countries of the Continent, fallen in Russia and at many stations in the south of our area. Readings in morning about 50° over the greater portion of the United Kingdom, 50° at Algiers, and 51° at San Fernando. Much below the freezing point over Russia and the adjacent countries, and as low as −12° at Kharkoff. Rising during day to 56° at North Shields and to about 54° in many parts of these Islands. Frost continuing over Hungary, Russia, and Sweden; maximum at St. Petersburg only 16°. Thermometer rising to a little above 60° at Algiers and in the south of Spain.

Wind in morning fresh to high from the Westward over these Islands and their vicinity, and moderate to a gale from the Southward over the Baltic and Sweden. Strong to high from North-East in Greece, and moderate from some Northerly point over the south of our area generally. Scarcely any change during day beyond an increase of force from the Westward in central Europe.

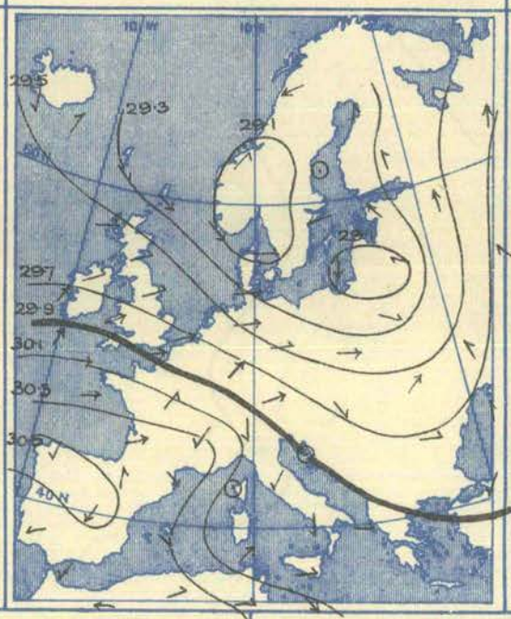
Barometer in morning above 30·4 ins. over the Spanish Peninsula, and relatively high in a band extending thence to Transylvania; below 29·8 ins. in a depression over Greece, about 29·0 ins. in a secondary system over the Skager Rack, and below 28·8 ins. in a very large disturbance in the far north of our area. Secondary travelling eastwards later and increasing in intensity. Pressure falling very briskly over Hungary and Poland, but central portion of high pressure system maintaining its position with very little modification. Barometer rising in Iceland and the north-west of this country.

Thursday, 4th February, 1909.

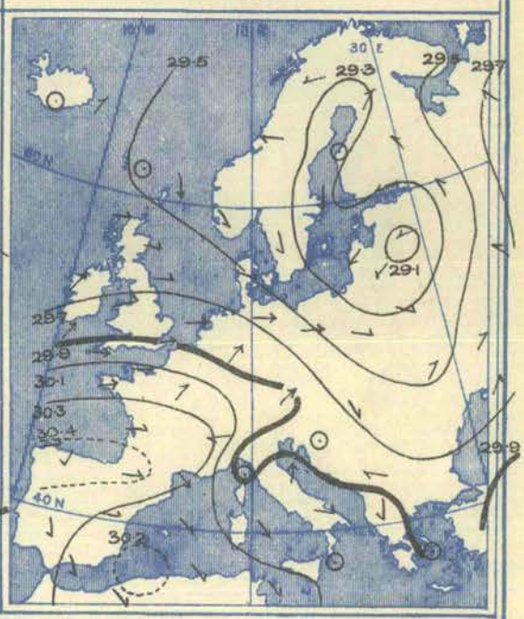
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in several parts of the Spanish Peninsula and Algeria, and also in a few localities elsewhere, but overcast generally. Rain falling at some of our own stations, at the Helder, and in some places in Denmark and central Europe, and snow at Lemberg and in the extreme north-east of our area. About an inch of rain falling later in some parts of northern Ireland, and between 0·5 in. and 0·8 in. in northern and north-eastern England. A considerable amount of rain or snow in many parts of central Europe, and as much as 0·9 in. at Vienna.

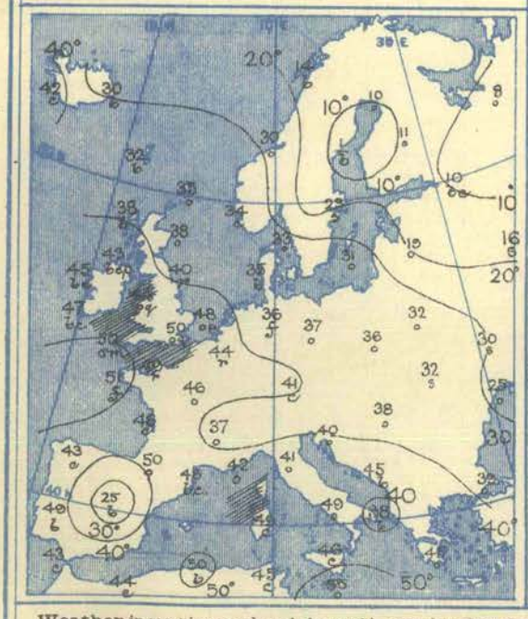
Temperature risen generally, fallen in Scotland and Scandinavia. Readings in morning 50° or rather higher in most parts of England and Ireland and at a few places in the far south of our area, and above 40° over the major portion of central Europe; below 32° over Russia, Transylvania, and nearly the whole of Scandinavia. As low as −5° at Kharkoff. Maxima during day as high as 55° or 56° at some of our own stations, and above 60° in the extreme south of our area, but thermometer remaining below 50° in the central countries, and below 40° in places.

Wind in morning fresh to strong or high from the Westward over this country and the adjacent regions of the Continent, and strong to a gale from that quarter in south Germany. Light or moderate from the Southward over Russia and Finland. Moderate to fresh winds between South-West and North-West prevailing over Italy and its vicinity. Not much change later in day, but some increase of force from the South-Westward taking place along the west coast of Ireland.

Barometer in morning above 30·5 ins. in an anticyclone over Spain; below 29·1 ins. in a very large system with two minima over Scandinavia and the Baltic, and below 30·0 ins. in a rather large depression over Italy and the Gulf of Genoa district. Gradient very steep over the Gulf of Lions. Very little modification taking place in the general distribution during day, but barometer falling in the west of Ireland, and a small depression of increasing energy travelling very quickly across the northern parts of Ireland and England during the night; pressure increasing rapidly in its rear.

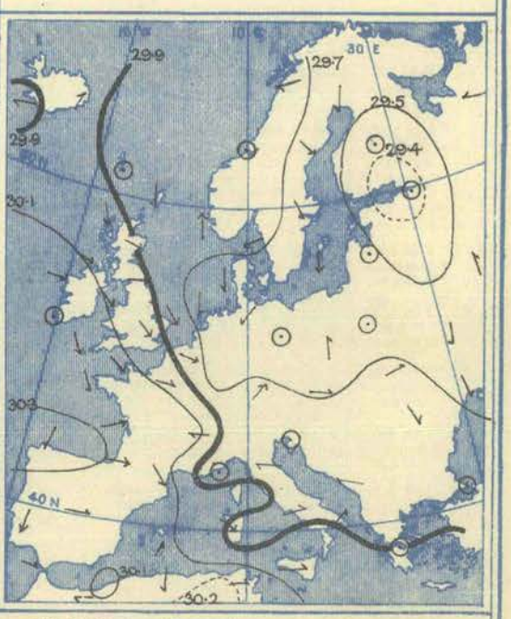
Friday, 5th February, 1909.

Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.

Barometer and Wind. 6 p.m.



Weather in morning rough and changeable over these Islands and their neighbourhood, with rain in places. Rain falling at Limoges and at some stations in central Europe, and snow in various parts of Russia and Finland. Fine and bright over a large portion of the Mediterranean and also in Norway. A good deal of rain later in Germany and the regions immediately surrounding, slight rain in various parts of these Islands, and a little snow in Russia and Finland.

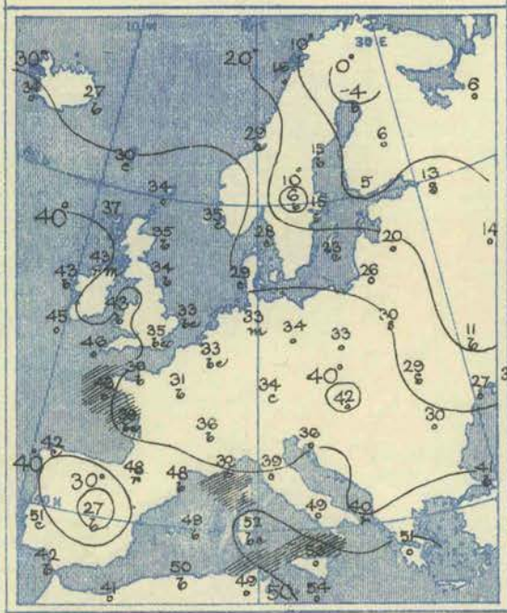
Temperature fallen in these Islands and also in several Continental regions. Morning readings below 20° in Russia and the greater part of Scandinavia, but above 32° over the central countries, and as high as 50° at Scilly, Brest, and at some places in the Mediterranean region. Thermometer as low as 25° at Madrid and 32° at Oporto. Maxima during day about 50° over England and Ireland, as well as in most of France and Italy, and nearly 60° in the south of Spain and on the coast of Algeria. Thermometer rising to above 40° in most localities in central Europe.

Wind in morning fresh to strong or high from between West and North over the United Kingdom, and high from the Westward over the north of France. A cyclonic circulation of little force prevailing over Russia, and moderate to strong North-Westerly breezes over the major portion of the Mediterranean. North-Westerly wind increasing to a fresh or strong gale on the east coast of England later, and a high wind from North setting in on the Dutch coast. Strong to high winds from between West and South experienced in central Europe.

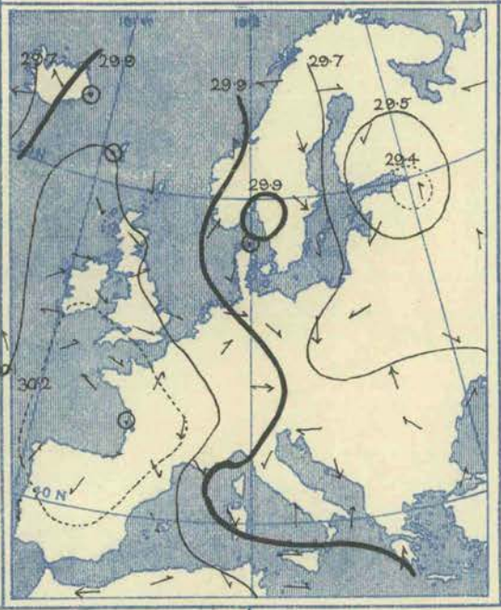
Barometer in morning above 30·3 ins. over the northern half of Spain and the adjacent part of the Bay; below 29·3 ins. in a large depression over the west of Russia, and below 29·4 ins. in a smaller system over Yorkshire and the nearer part of the North Sea. Relatively low in an ill-defined system over the Gulf of Genoa and northern Italy. North Sea disturbance travelling quickly to Germany during day, and pressure increasing very briskly over England. Rise of barometer slackening in the west of our Islands, and ceasing at Valencia.

Saturday, 6th February, 1909.

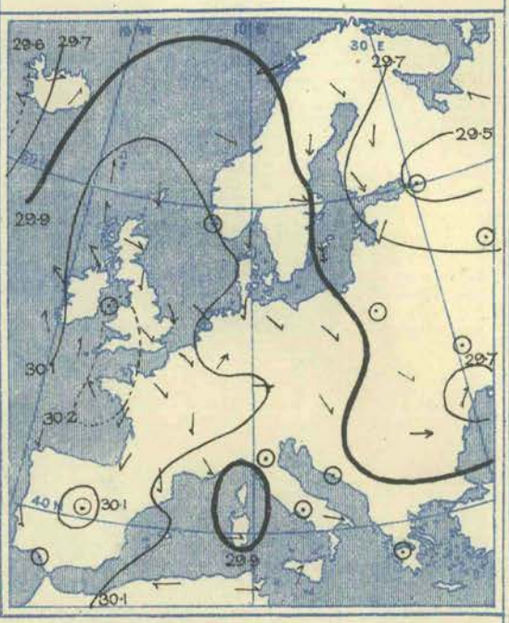
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over nearly the whole of these Islands and also in most parts of the Mediterranean region and Scandinavia. Dull, with rain or snow, over a large portion of central Europe. An inch of rain experienced later on the south-west coast of Ireland, 0·6 in. at Christiansund, and small quantities of rain or snow in parts of central Europe.

Temperature fallen in most districts. Morning readings much below 32° over Russia and Scandinavia, but above it in most other regions; above 35° in most parts of England, above 40° at most stations in the south of our area, and above 50° on some shores of the Mediterranean. Maxima during day about 45° over a large portion of England, below that figure over central Europe, and much below 32° in the north and east. Thermometer rising to 60° or 61° at some places in the south of our area, but only touching 50° at Brindisi. Sharp frost over England at night.

Wind in morning mainly between North and West over western Europe, but chiefly Southerly in Russia, and South-Easterly in Iceland. Very few places reporting a stronger force than a moderate breeze. A Southerly current springing up during day in the western districts of these Islands and also over Iceland. Northerly current extending towards Russia, and blowing a gale in Gothland.

Barometer in morning ranging from above 30·2 ins. in a large anticyclone covering the Bay of Biscay and France to below 29·7 ins. to the westward of Iceland, and to below 29·4 ins. in a disturbance over St. Petersburg and its vicinity. Relatively low over Corsica and the surrounding regions. High pressure system expanding northwards and north-eastwards during day, and pressure giving way steadily in the west of these Islands and in Iceland. Russian depression travelling eastwards.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees from North through East) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1909.										Metres.	
1	Jan. 31st, 11.0 a.m. to 12.20 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	74° 85% 310°, 3	73° 85% 310°, 10	71° 90% 335°, 12	68° 100% 330°, 15				68° 100% 330°, 15 1,050	Half overcast to overcast. Cu.-N. Lowest clouds, 750 m.
2	Feb. 1st, 1.55 p.m. to 5.4 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	75° 77% 360°, 6	74·5° 79% 360°, 11	74° 80% 360°, 13	70° 100% —, 11	68° 60% 349°, 8	66·5° 46% 326°, —		66·5° 46% 326°, 2,000	Moderate wind, very variable. Cu.-N. at 950 m.
3	Feb. 2nd, 3.9 p.m. to 4.10 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	77·5° 95% 259°, 5	77° 98% 265°, 9	76·6° 98% 268°, 10	73·5° 100% 290°, 16				72·5° 100% 292°, 17 1,250	Overcast; gentle breeze, very variable. N. at 750 m.
4	Feb. 3rd, 1.8 p.m. to 1.17 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	81° 100% 248°, 12	80° 100% 248°, 17	80° 100% 248°, 19					78° 100% 248°, 21 780	Overcast, with heavy rain. Kite dived to ground.
5	Feb. 4th, 9.55 a.m. to 10.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	82° 80% 250°, 10	81·5° 85% 250°, 16	77° 95% 250°, 18					78° 100% 250°, 19 600	Very strong gusty wind. Clouds at 550 m.
6	Feb. 4th, 10.22 a.m. to 11.45 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	80° 100% 260°, 12	100% 260°, —	100% 260°, —					80?° 100% 290°, — 950	Chart failed to turn. All temperatures between 79° and 81°. Very strong but steady wind. Half overcast. S.-cu. not reached. Scud at 200 m.
7	Feb. 4th, 3.0 p.m. to 4.30 p.m.	Aldershot.	Temperature Humidity .. Wind	85° 90% 270°, —	95%	100%					100% 600	Temperature and anemometer pens failed to write. Wind very strong and gusty, 270° to 290°.
8	Feb. 4th, 3.43 p.m. to 4.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	100% 270°, 21	281°, —	100% 281°, —					281°,—	Overcast, with heavy rain. Fresh to strong breezes. Clouds N. at 450 m. Kite broke away.
9	Feb. 5th, 4.47 p.m. to 5.18 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	76·5° 92% 315°, 6	75·5° 93% 315°, 10	75° 93% 315°, 12					72·5° 95% 315°, 8 870	Overcast, fresh to strong breeze. Clouds at 450 m.
10	Feb. 6th, 1.38 p.m. to 2.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	75° 80% 332°, 1	74° 80% 350°, 1	73·5° 80% 351°, 1					70·5 80% 360°, 2 950	Fine, with bright sunny intervals. Wind very light and variable. Clouds (Fr.-cu.) not reached.

Owing to Westerly gale that would be likely to carry the instruments into the North Sea, no registering balloon was sent up at Pyrton Hill.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10
No. of Kites	2	2	1	1	1	1	—	1	1	—
Area of Surface (sq. metres) ..	8·2	14·2	7·1	7·1	5	4	—	?	7·1	—
Capacity of Balloon (cub. metres)	—	—	—	—	—	—	—	—	—	5
Length of Wire (metres) ..	1,500	2,740	1,100	?	1,300	600	—	?	?	?

63, Victoria Street, London, S.W. *February 10th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 6. SIXTH WEEK, SUNDAY FEBRUARY 7TH TO SATURDAY FEBRUARY 13TH, 1909. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—General Remarks.

Weather.—During the first few days of the week and also towards its close the weather was generally fair or fine, but in the middle of the period the conditions were far less settled. Snow was experienced in most localities, and was very heavy locally on the coast of Essex. Thunder and lightning occurred at Newquay on Tuesday evening.

Temperature was below the average except in Scotland N., the greatest divergence being more than 4° in the Midland Counties and England S.E. The highest of the maxima were recorded on rather irregular dates, and ranged from 52° in Ireland S. to 45° in England E., and 44° in England N.E. The lowest of the minima were registered at most stations either on the first or the last day of the week, and ranged from 18° in Scotland E. and the Midland Counties to 22° in several other districts, and to 30° in the English Channel. The lowest temperatures reported on the grass were 12° at Birmingham and Llangammarch Wells, 13° at Markree Castle, 14° at Newton Rigg, and 15° at Balmoral, West Linton, and Greenwich.

Mean Temperature of the Sea.—In most places except on the south coast of Devonshire the water was rather colder than it was during the corresponding week of last year. The actual figures ranged from 47°·4 at Plymouth to less than 40° on the east and north-east coasts of England.

Rainfall was less than the normal in all districts except Ireland S., but in most parts of the Kingdom the deficit was slight.

Bright Sunshine varied greatly in different parts of the country, but was generally in excess in the southern districts. The percentage of the possible duration ranged from 45 in England S.W., 43 in the English Channel, and 37 in England S.E. to 13 in Scotland N. and to 11 in England N.E.

Barometer and Wind.—During the early days of the week the pressure distribution was favourable for winds mainly from the Southward, and light to fresh breezes from that quarter prevailed very generally. By Wednesday morning, however, a depression which had arrived from the north-westward lay over the eastern half of Britain and the North Sea, and the wind had veered to West or North-West. The recovery of pressure in the rear of this system, as it travelled southward to France, was very brisk and resulted in the formation of a steep barometric gradient over our south and east coasts where the wind blew with the force of a gale from the North Eastward. At the close of the week a large anticyclone advanced over the United Kingdom from the northward, and in Scotland the wind shifted to West or South-West.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 44.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1 Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Moderate	Deficient	Moderate	Moderate	Moderate	Deficient
	Rainfall ...	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Moderate	Scanty	Very scanty	Moderate	Scanty	Abundant	Moderate	Moderate	Very abundant	Moderate	Abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1908–9. 11 weeks from Nov. 29th, 1908.	Warmth ...	3 * 1	3 * 1	2 * 4	4 * 3	2 * 3	4 * 3	3 * 1	4 * 3	4 * 3	5 * 0	4 * 1	5 * 3
	Rainfall ...	2 * 3	2 * 4	0 * 4	2 * 6	2 * 5	3 * 6	4 * 1	2 * 4	3 * 6	3 * 2	3 * 4	4 * 6
	Sunshine ...	4 * 2	4 * 2	2 * 3	2 * 5	2 * 5	3 * 3	3 * 2	6 * 1	4 * 2	3 * 3	2 * 4	4 * 3

PAST SEASONS.

WINTER, 1907–8. Dec. 1st–Feb. 29th. 13 weeks.	Warmth ...	4 * 2	4 * 1	3 * 4	4 * 3	4 * 3	5 * 4	5 * 3	4 * 4	3 * 3	5 * 3	5 * 3	4 * 2
	Rainfall ...	4 * 4	6 * 5	4 * 6	5 * 5	4 * 8	3 * 7	7 * 3	8 * 4	3 * 4	6 * 3	2 * 3	4 * 5
	Sunshine ...	4 * 3	5 * 1	3 * 2	5 * 5	3 * 4	6 * 2	1 * 3	6 * 2	3 * 3	3 * 4	3 * 3	2 * 3
SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

SIXTH WEEK—February 7th to 13th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	48	19	42·0	33·5	37·8	+ 0·6	0	– 6	29	– 13	5	0	0·70	– 0·54	8	– 3	13	– 6
Eastern																		
1. SCOTLAND, EAST	48	18	39·8	30·5	35·1	– 1·8	0	– 8	48	+ 2	3	– 1	0·33	– 0·22	10	– 7	16	–11
2. ENGLAND, N.E.	44	22	38·3	31·0	34·7	– 1·0	0	– 10	51	+ 17	3	0	0·36	– 0·02	7	– 10	11	–16
3. ENGLAND, EAST	45	22	39·4	30·4	34·9	– 3·5	0	– 11	50	+ 12	3	– 1	0·35	– 0·02	20	+ 2	31	+ 3
4. MIDLAND COUNTIES	48	18	39·1	29·8	34·5	– 4·1	0	– 12	53	+ 16	2	– 1	0·44	– 0·03	10	– 5	16	– 8
5. ENGLAND, S.E.	46	22	40·2	31·0	35·6	– 4·4	0	– 14	45	+ 17	3	0	0·33	– 0·19	24	+ 8	37	+13
Western																		
6. SCOTLAND, WEST	47	21	41·3	33·6	37·5	– 1·1	0	– 10	32	0	3	– 2	0·90	– 0·08	15	+ 1	24	+ 1
7. ENGLAND, N.W.	46	22	40·1	32·4	36·3	– 3·3	0	– 11	40	+ 12	3	– 1	0·57	– 0·05	14	– 1	21	– 1
8. ENGLAND, S.W.	50	22	42·0	33·3	37·7	– 3·5	0	– 16	30	+ 7	3	– 1	0·46	– 0·30	29	+ 13	45	+20
9. IRELAND, NORTH	50	22	44·3	36·1	40·2	– 0·2	6	– 8	22	– 3	4	– 1	0·63	– 0·08	18	+ 4	29	+ 6
10. IRELAND, SOUTH	52	22	45·4	36·4	40·9	– 1·2	10	– 10	22	+ 3	4	– 1	0·98	+0·18	21	+ 5	33	+ 8
11. ENGLISH CHANNEL	51	30	45·4	37·7	41·6	– 2·4	10	– 14	18	+ 8	3	– 1	0·61	– 0·03	27	+ 8	43	+13

THE SEASON (**Winter**). Aggregates, &c., for the Period of 11 Weeks, November 29th, 1908, to February 13th, 1909.

0. SCOTLAND, NORTH	56	19	*	*	*	*	95	+ 15	264	–111	62	+ 4	15·09	+0·72	61	– 2	12	– 1
Eastern																		
1. SCOTLAND, EAST	58	16	*	*	*	*	79	– 1	401	– 46	40	– 5	5·78	– 0·91	103	+ 5	19	+ 1
2. ENGLAND, N.E...	56	11	*	*	*	*	60	– 32	415	+ 54	37	– 3	3·07	– 1·73	108	– 1	18	0
3. ENGLAND, EAST	58	7	*	*	*	*	76	– 25	363	– 48	40	– 3	3·23	– 1·29	120	– 7	20	– 1
4. MIDLAND COUNTIES.. ..	57	3	*	*	*	*	88	– 27	401	– 11	40	– 2	3·60	– 2·00	98	– 9	16	– 2
5. ENGLAND, S.E.	56	3	*	*	*	*	141	– 9	287	– 16	38	– 4	4·34	– 1·60	137	+ 14	22	+ 2
Western																		
6. SCOTLAND, WEST	56	21	*	*	*	*	105	– 13	251	– 42	54	+ 2	12·81	+0·62	88	– 3	15	– 1
7. ENGLAND, N.W...	57	16	*	*	*	*	108	– 12	233	– 8	46	0	6·87	– 0·87	125	+ 32	21	+ 5
8. ENGLAND, SW	57	13	*	*	*	*	186	– 10	177	– 43	44	– 2	7·02	– 2·86	148	+ 23	24	+ 4
9. IRELAND, NORTH	55	22	*	*	*	*	188	+ 40	174	– 79	57	+ 3	9·47	+0·63	108	+ 1	18	0
10. IRELAND, SOUTH	59	22	*	*	*	*	293	+ 59	130	– 60	54	+ 3	8·44	– 2·00	119	– 8	19	– 1
11. ENGLISH CHANNEL	57	25	*	*	*	*	339	+ 35	67	– 10	45	– 8	7·46	– 0·90	177	+ 18	27	+ 3

THE YEAR.—Aggregates, &c., for the Period of 6 Weeks, January 3rd to February 13th, 1909.

0. SCOTLAND, NORTH	56	19	*	*	*	*	24	– 16	168	– 48	34	+ 2	8·10	+0·12	41	0	13	0
Eastern																		
1. SCOTLAND, EAST	58	18	*	*	*	*	23	– 22	233	– 14	22	– 2	3·77	+0·32	68	+ 1	21	0
2. ENGLAND, N.E.	56	17	*	*	*	*	27	– 24	240	+ 41	18	– 4	1·57	– 0·79	80	+ 12	24	+ 4
3. ENGLAND, EAST	58	17	*	*	*	*	30	– 24	227	+ 1	20	– 3	1·28	– 1·05	100	+ 21	29	+ 6
4. MIDLAND COUNTIES.. ..	57	13	*	*	*	*	33	– 31	245	+ 22	18	– 5	1·57	– 1·36	74	+ 7	21	+ 2
5. ENGLAND, S.E...	56	17	*	*	*	*	57	– 18	185	+ 15	16	– 6	1·29	– 1·80	103	+ 30	29	+ 9
Western																		
6. SCOTLAND, WEST	53	21	*	*	*	*	37	– 25	148	– 18	28	0	7·09	+0·83	59	+ 1	18	0
7. ENGLAND, N.W.	57	16	*	*	*	*	46	– 15	172	+ 10	23	– 2	3·88	– 0·17	83	+ 25	25	+ 7
8. ENGLAND, S.W.	54	13	*	*	*	*	71	– 29	134	+ 7	21	– 5	2·51	– 2·39	105	+ 30	30	+ 9
9 IRELAND, NORTH	55	22	*	*	*	*	82	+ 1	99	– 42	31	+ 2	5·12	+0·52	63	– 1	19	0
10. IRELAND, SOUTH	59	22	*	*	*	*	123	+ 5	81	– 24	26	– 1	3·89	– 1·38	76	+ 1	22	0
11. ENGLISH CHANNEL	54	25	*	*	*	*	139	– 10	58	+ 9	21	– 7	2·91	– 1·15	114	+ 20	31	+ 5

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation, (generally 7 a.m. or 9 a.m.) at Stations marked *a* and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℳ is supplied by the Royal Meteorological Society, and that for Stations marked 𝒮 is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*46*	*13th*	*29*	*12th*	*41·9*	*34·6*	*38·3*	—	*0*	*26*	*5*	*0·57*	—	*4·1*	—	*7*	—	*Balta Sound.*
	a Sumburgh Head ..	46	13th	30	7th	41·4	35·7	38·6	+ 0·4	0	24	5	0·33	- 0·47	3·2	- 8·4	6	-15	Deerness.
	a Stornoway	48	13th	35	7th, 13th	44·3	37·6	41·0	+ 2·0	6	17	5	0·83	- 0·24	12·0	- 0·6	20	- 1	Stornoway.
	a Castlebay, Barra Isd.	*48*	*13th*	*36*	*12th*	*45·1*	*39·4*	*42·3*	+ *1·1*	*13*	7	*3*	*0·67*	—	*12·6*	—	*21*	—	*Castlebay.*
	a Wick	45	13th	25	13th	42·1	35·0	38·6	+ 1·0	0	25	6	0·41	- 0·15	*	*	*	*	*
	p Strathpeffer	48	10th	24	13th	42·6	32·6	37·6	+ 0·5	2	33	4	0·09	- 0·58	8·3	- 5·0	14	- 8	Strathpeffer.
	p Glencarron ..	44	8th, 9th	23	13th	40·9	31·3	36·1	- 0·4	0	41	5	1·76	- 0·14	*	*	*	*	*
	p Fort Augustus	43	8th, 9th	19	13th	40·8	30·9	35·9	- 1·8	0	43	3	0·25	- 0·83	6·8	- 1·7	11	- 3	Fort Augustus.
b, Mainland.	*p* Fort William S	45	10th	21	13th	41·9	31·4	36·7	- 2·4	0	37	5	1·21	- 0·66	*	*	*	*	*
1. SCOTLAND, E.	*p* Gordon Castle S	45	8th	25	13th	40·7	31·1	35·9	- 2·3	0	43	2	0·37	- 0·13	*9·2*	—	*15*	—	*Gordon Castle.*
	a Nairn	47	8th, 13th	22	13th	42·3	31·4	36·9	- 0·5	1	38	4	0·12	- 0·33	15·5	—	26	—	Nairn.
	a Aberdeen	47	13th	28	7th, 13th	40·4	32·6	36·5	- 1·4	0	39	2	0·24	- 0·30	8·8	- 7·2	15	-12	Aberdeen.
	a Balmoral .. S	48	7th	18	13th	43·3	28·3	35·8	+ 1·8	4	49	2	0·32	- 0·35	8·8	—	15	—	Crathes S.
	p Crieff .. .. S	41	10th	24	7th	38·1	30·6	34·4	- 3·3	0	53	3	0·27	- 0·58	9·8	—	16	—	Balruddery
	a Leith	43	8th	26	7th, 8th	40·3	32·3	36·3	- 2·8	0	49	3	0·25	- 0·13	7·9	- 3·9	13	- 6	Edinburgh.
	a West Linton.. S	39	13th	20	7th	35·5	28·0	31·8	- 4·6	0	71	2	0·54	—	*9·2*	—	*15*	—	*West Linton.*
	p Marchmont .. S	41	13th	26	7th	37·4	29·4	33·4	- 3·4	0	60	3	0·55	+ 0·02	7·8	- 6·7	13	-11	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	41	10th, 13th	22	7th	37·7	30·3	34·0	- 4·0	0	56	2	0·49	+ 0·01	5·0	—	8	—	Cockle Park.
	a Shields	42	10, 11, 13th	28	7th, 8th	39·6	30·4	35·0	- 3·8	0	49	3	0·32	- 0·02	*2·0*	- *8·5*	*3*	-*14*	*Newcastle.*
	p Durham	42	13th	25	7th	36·4	30·3	33·4	- 3·9	0	60	3	0·45	+ 0·12	1·1	-13·5	2	-22	Durham.
	p Rounton .. M	41	13th	25	7th	37·3	30·1	33·7	- 3·4	0	58	3	0·51	+ 0·13	*	*	*	*	*
	p Scarborough.. M	44	7th, 13th	32	8th, 9th	40·3	33·7	37·0	- 1·7	0	35	3	0·16	- 0·28	11·2	—	18	—	Scarborough.
	p York	43	13th	26	7th	38·3	30·6	34·5	- 3·8	0	53	3	0·31	- 0·08	0·6	-11·5	1	-18	York.
b, South.	*a* Spurn Head ..	41	10th, 13th	31	12th	38·9	33·1	36·0	- 2·9	0	42	3	0·15	- 0·14	*	*	*	*	*
	a Lincoln	41	13th	25	7th	38·2	29·6	33·9	- 4·0	0	57	3	0·39	+ 0·03	14·6	—	23	—	Skegness.
	a Fulbeck	40	13th	27	7th	37·9	30·9	34·4	- 3·8	0	53	3	0·43	+ 0·05	10·2	—	16	—	Rauceby.
															21·5	—	*34*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	43	7th	29	8th, 9th	39·4	31·1	35·3	- 1·7	0	47	3	0·10	—	19·2	—	30	—	Cromer.
	p Hillington .. M	45	7th	24	7th	39·8	29·7	34·8	- 2·8	0	50	3	0·20	- 0·23	17·9	+ 2·8	28	+ 4	Hillington.
	a Yarmouth	41	13th	30	7th, 8th	38·6	31·9	35·3	- 2·3	0	47	3	0·35	+ 0·01	24·2	—	38	—	Yarmouth.
	a Norwich	43	7th	27	7th	39·3	30·5	34·9	- 2·6	0	50	3	0·19	—	*	*	*	*	*
	p Geldeston	42	7th	27	7th	39·8	30·5	35·2	- 3·3	0	48	4	0·50	+ 0·16	18·5	+ 2·2	29	+ 3	Geldeston.
	p Cambridge	45	7th	22	7th	40·6	29·2	34·9	- 3·4	0	50	2	0·12	- 0·21	23·4	+ 7·4	37	+12	Cambridge.
b, South.	*a Felixstowe* ..	*40*	*9th, 13th*	*27*	*7th*	*38·7*	*31·6*	*35·2*	- *3·3*	*0*	*48*	*3*	*0·92*		*21·3*	—	*33*	—	*Felixstowe.*
	a Clacton-on-Sea ..	42	7th	31	7th, 11th	38·6	32·6	35·6	- 2·9	0	45	3	1·19	—	23·7	—	37	—	Clacton.
	a Rothamsted ..	42	7th	22	7th	38·8	28·1	33·5	- 4·1	0	60	3	0·19	- 0·26	17·4	+ 2·6	27	+ 4	Rothamsted.
	a Shoeburyness ..	*41*	*7th, 11th*	*26*	*7th*	*39·0*	*30·9*	*35·0*	- *3·9*	*0*	*49*	*3*	*0·67*	+ *0·39*	*20·6*	—	*32*	—	*Southend.*
	p Tottenham	43	7th	25	7th	39·8	30·2	35·0	- 4·0	0	49	3	0·29	—	15·2	—	23	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	41	13th	25	7th	36·6	29·5	33·1	- 3·9	0	62	3	0·42	- 0·10	4·2	—	7	—	Harrogate.
	a Bawtry	45	13th	24	7th	37·4	30·9	34·2	- 4·0	0	55	3	0·39	+ 0·01	4·9	- 7·6	8	-12	Worksop.
	p Buxton .. M	*39*	*13th*	*23*	*7th*	*35·2*	*28·2*	*31·7*	- *3·8*	*0*	*72*	*3*	*0·70*	- *0·30*	*12·4*	—	*19*	—	*Buxton.*
	a Nottingham ..	40	7, 9, 13th	21	7th, 8th	38·3	29·0	33·7	- 4·3	0	58	3	0·52	+ 0·12	6·6	—	10	—	Nottingham.
	p Birmingham, Edgbsn	40	7th, 9th	28	7th, 8th	38·2	30·2	34·2	- 3·8	0	55	3	0·58	+ 0·11	6·8	—	11	—	Birmingham.
	a Raunds .. M	42	7th	18	7th	39·2	27·0	33·1	- 4·6	0	62	3	0·23	—	*	*	*	*	*
	a Oxford	44	9th	24	7th, 8th	40·4	29·3	34·9	- 4·1	0	50	3	0·27	- 0·13	16·3	+ 1·4	25	+ 2	Oxford.
b, West.	*a* Cheadle .. M	41	13th	27	8th	36·5	29·6	33·1	- 4·0	0	62	3	0·46	- 0·05	1·5	—	2	—	Sheffield.
	p Shrewsbury	45	9th	27	7th	42·5	30·7	36·6	- 2·5	1	40	2	0·70	—	*	*	*	*	*
	a Hereford .. M	46	9th	29	9th	40·2	31·0	35·6	- 3·3	0	45	3	0·31	- 0·19	*	*	*	*	*
	a Cirencester	45	9th	26	7th	39·2	28·5	33·9	- 3·8	0	57	2	0·39	- 0·11	19·1	+ 3·8	29	+ 6	Cirencester.
	a Bath	48	9th	30	7, 9, 13th	42·1	31·6	36·9	- 3·1	0	37	2	0·60	+ 0·09	26·1	—	31	—	Bath.
															27·0	—	*42*	—	*Ramsgate.*
5. ENGLAND, S.E... .. — a, SCOTLAND. W. ..	*p* Kew	44	7th	26	7th	39·8	31·0	35·4	- 3·9	0	46	3	0·14	- 0·23	16·9	+ 4·4	26	+ 7	Kew.
	a Marlborough ..	44	9th	22	7th	40·0	29·0	34·5	- 3·4	0	53	4	0·50	- 0·05	15·2	+ 2·2	23	+ 3	Marlborough.
	a Margate	46	7th	32	7, 8, 12, 13	40·2	32·5	36·4	- 3·0	0	39	3	0·84	+ 0·48	21·7	+ 6·3	33	+10	Margate.
	a Wisley, Surrey ..	44	7th	23	7th, 8th	39·3	29·0	34·2	- 5·4	0	55	3	0·18	—	15·8	—	24	—	Wisley.
	a Swarraton .. M	43	9th	24	7th	39·1	29·3	34·2	- 4·0	0	55	2	0·33	- 0·22	32·7	—	50	—	Worthing.
	a Tunbridge Wells M	44	7th	28	13th	38·1	29·7	33·9	- 4·3	0	57	3	0·28	- 0·26	21·7	+ 7·2	33	+11	Tunbridge Wells.
	a Dungeness	44	9th	24	7th	40·4	30·1	35·3	- 4·2	0	47	3	0·27	- 0·11	29·3	—	45	—	Littlestone.
	p Hastings	44	7th	30	13th	40·7	32·8	36·8	- 3·0	0	36	3	0·19	- 0·31	*33·1*	+*15·3*	*51*	+*24*	*Hastings.*
	p Southampton ..	45	7th, 9th	29	7th	41·8	32·3	37·1	- 3·6	0	34	2	0·24	- 0·29	19·8	+ 3·6	31	+ 6	Southampton.
	a Ventnor	46	7th, 9th	30	13th	42·5	34·6	38·6	- 3·0	1	27	3	0·31	- 0·21	28·6	+10·9	43	+17	Ventnor.
LONDON	*a Westminster* ..	*44*	*7th*	*28*	*7th, 8th*	*40·9*	*31·6*	*36·3*	- *3·0*	*0*	*40*	*3*	*0·21*	- *0·17*	*10·1*	+ *3·1*	*16*	+ *5*	*Westminster.*
	a Greenwich	*44*	*7th*	*26*	*7th*	*39·9*	*30·2*	*35·1*	- *3·9*	*0*	*48*	*3*	*0·28*	- *0·08*	*21·1*	+ *8·4*	*32*	+*13*	*Greenwich.*
															36·0	+19·5	55	+30	Eastbourne.
6. — a, SCOTLAND. W. .. — b, ISLE OF MAN ..	*p* Laudale	45	10th	25	13th	41·9	34·0	38·0	- 2·0	0	28	5	2·32	+ 1·12	*	*	*	*	*
	a Poltalloch .. S	44	10th	30	13th	41·1	34·1	37·6	- 1·1	0	31	5	0·88	- 0·05	*	*	*	*	*
	p Glasgow	43	10th	32	7th	39·9	34·7	37·3	- 1·2	0	33	3	0·15	- 0·53	5·2	- 3·8	9	- 6	Glasgow.
	p Rothesay .. S	46	10th	32	12th, 13th	42·7	36·0	39·4	- 0·1	2	22	4	0·68	- 0·23	*	*	*	*	*
	a Kilmarnock ..	47	8th	25	13th	41·8	32·5	37·2	- 1·7	0	34	4	0·45	—	*8·0*	—	*13*	—	*Kilmarnock.*
	a Colmonell	—	—	21	13th	—	32·9	—	—	—	—	3	1·10	+ 0·18	*	*	*	*	*
	p Dumfries	42	10th	25	7th	39·3	32·4	35·9	- 2·7	0	43	2	0·35	- 0·41	*	*	*	*	*
	p Cally, Gatehouse S	44	10th, 11th	25	13th	41·1	30·5	35·8	- 2·6	0	43	2	0·73	- 0·27	*	*	*	*	*
	p Douglas	45	9th	28	13th	42·5	34·3	38·4	- 1·9	1	27	3	0·91	+ 0·11	22·3	+ 6·8	35	+11	Douglas.
															8·5	—	13	—	Hoylake.
7. — a, ENGLAND, N.W... — b, NORTH WALES ..	*p* Aspatria	43	7th, 8th	25	13th	40·9	32·2	36·1	- 1·6	0	41	3	0·48	- 0·12	18·1	—	29	—	Aspatria.
	p Newton Rigg ..	41	13th	22	13th	37·9	29·5	33·7	- 2·9	0	58	2	0·49	- 0·25	14·3	+ 0·9	23	+ 2	Newton Rigg.
	p Stonyhurst	41	13th	30	13th	38·4	31·7	35·1	- 2·9	0	48	3	0·45	- 0·38	10·4	- 2·1	17	- 3	Stonyhurst.
	p Blackpool .. M	44	9th	28	13th	40·0	31·9	36·0	- 2·7	0	42	3	0·37	- 0·19	14·5	+ 0·9	23	+ 1	Blackpool.
	p M'nch'ster,Prestwich	41	13th	29	7th	38·3	31·4	34·9	- 3·3	0	50	2	0·53	- 0·07	*9·0*	+ *0·6*	*14*	+ *1*	*Prestwich.*
	a Liverpool (Bidston)	44	9th	31	9th	39·3	32·7	36·0	- 3·4	0	42	3	0·32	- 0·12	*8·3*	—	*13*	—	*Liverpool.*
	a Hawarden Bridge ..	41	7th, 9th	29	7th	39·8	32·7	36·3	- 3·8	0	40	2	0·67	+ 0·31	*11·8*	- *2·2*	*19*	- *4*	*Southport.*
															12·5	—	*20*	—	*Rhyl.*
	p Llandudno .. M	46	9th	32	13th	41·6	34·3	38·0	- 3·3	0	28	3	0·70	+ 0·18	10·0	- 5·4	16	- 9	Llandudno.
	a Holyhead	46	9th, 10th	32	13th	42·6	36·3	39·5	- 1·9	2	21	3	0·40	- 0·22	20·4	—	32	—	Aberdovey.
	p Bettws-y-Coed ..	46	8th	29	7, 9, 13th	43·0	31·7	37·4	- 3·0	3	37	4	1·24	—	12·0	—	19	—	Bettws-y-Coed.
															16·0	—	25	—	Aberystwyth.
8. — a, SOUTH WALES .. — b, ENGLAND, S.W. ..	*a* Llangammarch Wells	44	9th	22	7th	39·6	28·7	34·2	- 3·8	0	55	3	0·68	—	15·5	—	24	—	Llangammarch Wells.
	a Pembroke	48	9th	27	13th	44·1	36·6	40·4	- 1·7	6	21	3	0·35	- 0·31	31·2	+14·5	48	+22	Pembroke.
	a Cardiff	47	9th	29	9th, 13th	40·6	31·0	35·8	- 3·9	0	43	2	0·45	- 0·29	*24·2*	—	*37*	—	*Cardiff.*
															29·7	+*12·0*	*46*	+*19*	*Tenby.*
	a Clifton	47	9th	29	13th	41·3	32·7	37·0	- 3·0	0	35	2	0·46	- 0·12	*20·2*		*31*		*Clifton.*
	a Shaftesbury .. M	42	9th	27	13th	38·2	31·7	35·0	- 3·1	0	49	2	0·50	- 0·08	*	*	*	*	*
	a Arlington	45	9th	27	13th	41·0	31·7	36·4	- 2·8	0	39	4	0·53	- 0·43	32·9	+15·9	50	+24	Newquay.
	a Cullompton .. M	48	9th	26	7th	42·9	32·5	37·7	- 2·5	3	34	2	0·39	- 0·29	29·3	+14·3	45	+22	Cullompton.
	a Portland Bill ..	47	9th	30	12th, 13th	43·1	36·1	39·6	- 1·9	3	21	2	0·25	—	*30·7*	—	*47*	—	*Weymouth.*
	p Plymouth	50	9th	29	13th	44·5	35·5	40·0	- 2·0	7	25	2	0·35	- 0·33	42·5	+26·1	64	+40	Plymouth.
	p Falmouth	49	9th	28	13th	44·2	36·5	40·4	- 2·7	6	21	3	0·66	- 0·24	35·3	+17·6	54	+27	Falmouth.
															39·4	+*22·0*	*60*	+*33*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	47	9th	29	13th	43·4	36·7	40·1	- 0·7	4	20	4	0·26	- 0·29	*	*	*	*	*
	a Blacksod Point ..	50	8th	33	13th	46·0	39·4	42·7	+ 0·2	16	7	4	1·27	+ 0·32	*	*	*	*	*
	p Markree Castle ..	49	10th	22	13th	45·0	34·0	39·5	- 0·3	8	30	4	0·92	+ 0·15	14·0	+ 0·4	22	+ 1	Markree Castle.
b, East.	*p* Armagh	48	10th	27	13th	43·6	33·0	38·3	- 1·5	4	33	4	0·29	- 0·24	22·7	+ 9·0	36	+14	Armagh.
	a Donaghadee	46	8, 9, 10th	34	13th	43·3	37·6	40·5	0·0	4	17	3	0·41	- 0·16	*	*	*	*	*
10. IRELAND, S. — a, East.	*p* Dublin, City.. ..	46	7, 8, 9, 10	32	13th	44·3	36·5	40·4	- 1·7	6	21	3	0·18	- 0·32	21·6	+ 5·1	34	+ 8	Phœnix Park.
	a Kilkenny	47	7th	25	13th	44·1	35·3	39·7	- 0·9	6	25	4	0·50	- 0·15	*	*	*	*	*
	a Waterford	48	7, 9, 11, 13	30	13th	46·6	36·7	41·7	+ 0·4	13	22	4	0·60	- 0·26	*	*	*	*	*
	a Birr Castle	48	7th, 8th	22	13th	44·4	32·3	38·4	- 1·6	7	36	4	0·44	- 0·11	20·8	+ 6·0	33	+ 9	Birr Castle.
b, West.	*a* Foynes	50	7th	24	13th	45·3	36·4	40·9	- 1·4	9	22	5	1·01	+ 0·24	*	*	*	*	*
	a Cahir .. .. M	48	9th	24	13th	43·7	36·3	40·0	- 1·2	5	21	4	0·70	—	*	*	*	*	*
	a Killarney	52	8th	24	13th	47·0	36·0	41·5	- 1·0	14	25	4	1·96	+ 0·67	*	*	*	*	*
	a Valencia	52	7th	28	13th	47·9	39·3	43·6	- 0·7	23	8	4	2·04	+ 0·80	21·3	+ 5·4	33	+ 9	Valencia.
	a Roche's Point ..	49	8th	30	13th	45·6	38·4	42·0	- 1·3	10	10	4	1·37	+ 0·41	21·3	—	33	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	51	9th	38	13th	47·4	42·1	44·8	- 0·4	29	0	3	0·66	- 0·01	25·9	+ 7·0	39	+11	Scilly.
	a Jersey, St. Aubins ..	49	9th	30	7th	44·4	34·6	39·5	- 3·1	7	28	3	0·53	- 0·09	30·2	+ 9·5	46	+14	St. Heliers.
	a Guernsey	48	7, 9, 10th	34	7th	44·4	36·5	40·5	- 2·9	7	21	3	0·63	- 0·04	26·1	+ 7·7	40	+12	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 26·7 hrs.* (+*10·0 hrs.*), *41 %* (+*15 %*); *Bournemouth, 24·6 hrs., 38 %*; *Bognor, 29·4 hrs., 45 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	— — ..				
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	38·7
	Crathes	2	16	35·3	37·8
	Balmoral	6	15	—	—
	West Linton	6	15	—	—
	Marchmont ..	5	19	34·1	—
2.	Cockle Park	7	16	34·1	38·6
	Durham	4	23	—	—
	York	—	—	37·2	40·5
	Hull	7	22	36·3	41·0
	Lincoln	—	—	35·3	39·5
	Rauceby	6	22	36·5	41·8
3.	Norwich	7	22	—	—
	Yarmouth	—	—	35·9	41·1
	Lowestoft	2	26	36·7	40·6
	Cambridge	7	21	36 5	41·4
	Clacton-on-Sea ..	7	21	38·6	43·1
	Southend	7	22	36·9	—
	Tottenham	6	22	—	42·5
4.	Harrogate	5	20	56·9	39·2
	Huddersfield ..	5	20	35·6	39·9
	Buxton	7	18	35·5	40·5
	Sheffield	7	23	35·8	40·1
	Nottingham	5	23	34·8	38·7
	Birmingham	7	12	38·2	43·7
	Oxford	7	20	—	—
	Hereford	6	20	—	—
	Cirencester	6	25	—	—
5.	Margate	3	27	37·3	41·0
	Greenwich	6	15	—	—
	Westminster ..	6	21	—	—
	Kew	7	18	36·7	42·3
	Canterbury	7	19	38·6	43·3
	Tunbridge Wells ..	7	19	35·9	—
	Wisley	7	20	36·7	41·8
	Worthing	4	22	37·5	42·9
	Portsmouth	3	20	39·1	43·8
6.	Glasgow	2	28	—	—
	Rothesay	—	—	—	42·8
	Colmonel	3	18	—	—
	Dumfries	2	20	—	—
	Douglas	3	21	—	—
7.	Aspatria	6	19	—	—
	Newton Rigg ..	7	14	36·1	39·2
	Burnley	5	22	35·3	39·9
	Southport	5	21	35·8	39·7
	Manchester City ..	?	?	36·1	41·3
	Bettws-y-Coed ..	3	27	39·1	43·0
8.	Llangammarch Wells	7	12	38·8	43·7
	Cardiff	6	22	38·2	42·6
	Clifton	4	26	—	—
	Bath	—	—	40·5	44·6
	Plymouth	6	23	40·5	—
9.	Armagh	6	20	40·8	44·1
	Markree	3	13	—	—
10.	Dublin, Trin. Coll. ..	3	20	41·3	44·3
11.	Guernsey, Brooklyn	2	26	40·9	45·5

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	42	42·6
	Kirkwall	42	40	41·1
	Wick	45	45	45·0
SCOTLAND, E.	Cromarty	43	40	41·2
	Pennan Bay	42	39	40·4
	Aberdeen, Cove Bay ..	39	37	38·2
ENGLAND, N.E.	Burnmouth, Berwick ..	42	40	40·4
ENGLAND, E.	Scarborough	41	38	39·5
	Shipwash Lightship ..	?40	?38	?39·3
	Margate	40	38	39·4
ENGLAND, S.E.	Eastbourne‡	41	38	40·1
SCOTLAND, W.	Lamlash	45	42	43·6
	Ballantrae	44	42	42·9
ENGLAND, N.W.	Port Erin	46	43	44·7
ENGLAND, S.W.	Newquay	46	46	46·0
	Plymouth‡	48	47	47·4
	Salcombe	48	44	46·3
IRELAND, N.W.	Sheephaven	46	44	45·3
	Teelin	47	39	44·8
IRELAND, S.W.	Cleggan	49	43	45·7
	Seafield	48	42	46·4
IRELAND, E. ..	.. ..			

‡ Only one observation each day.

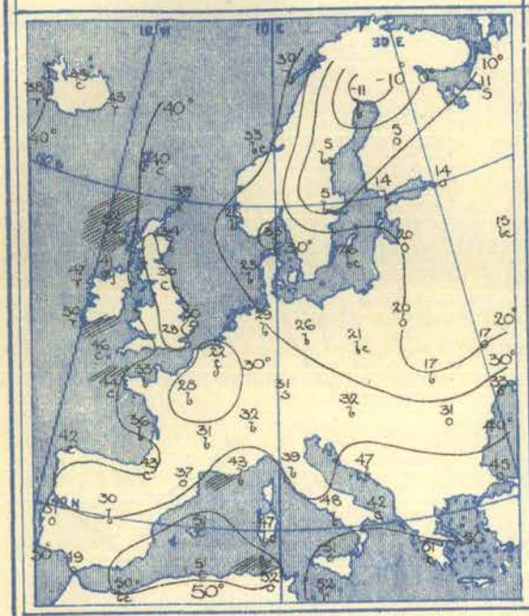
ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1909.	Station.	Wind direction in degrees from North through East and velocity, metres per second.														
			Ground Level.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres.	4,000 metres.	4,500 metres.	5,000 metres.	5,500 metres.	6,000 metres.	7,000 metres.	8,000 metres.
1	January 11th, 3.0 p.m.	Pyrton Hill, Oxon, 150 metres.	250°, 4	250°, 10	270°, 25												
2	January 12th, 2.22 p.m.	Ditcham Park, Petersfield, 165 metres.	290°, 8	292°, 9·5	305°, 16	290°, 18·5	300°, 29										
3	January 12th, 3.54 p.m.	Ditcham Park, Petersfield, 165 metres.	290°, 6	285°, 10·5	300°, 12	305°, 17·5	300°, 23	290°, 26·5	290°, 21·5								
4	January 12th, 3.0 p.m.	Pyrton Hill, Oxon, 150 metres.	270°, 4	290°, 12	290°, 20	294°, 28	296°, 27	296°, 28	297°, 30								
5	January 13th, 3.0 p.m.	Pyrton Hill, Oxon, 150 metres.	250°, 3	260°, 16	265°, 22												
6	January 15th, 11.40 a.m.	Ditcham Park, Petersfield, 165 metres.	270°, 4	277°, 7	285°, 14	275°, 13·5	265°, 13	275°, 16	270°, 26·5								
7	January 19th, 10.34 a.m.	Ditcham Park, Petersfield, 165 metres.	330°, 4	340°, 9	350°, 10	305°, 13	[290°, 4]										
8	January 19th, 12.33 p.m.	Ditcham Park, Petersfield, 165 metres.	325°, 7·5	335°, 10·5	335°, 9	300°, 12	325°, 10	250°, 8·5									
9	January 20th, 10.10 a.m.	Ditcham Park, Petersfield, 165 metres.	10°, 8	30°, 12·5	15°, 11	10°, 11·5	27°, 14	40°, 11·5									
10	January 30th, 3.21 p.m.	Ditcham Park, Petersfield, 165 metres.	355°, 7·5	345°, 13	345°, 16°	345°, 18	345°, 19	345°, 21·5	345°, 27·5								
11	February 5th, 4.28 p.m.	Ditcham Park, Petersfield, 165 metres.	312°, 9	315°, 13	325°, 16·5	335°, 20·5	330°, 20	330°, 22·5	320°, 29·5	320°, 30							
12	February 6th, 4.48 p.m.	Ditcham Park, Petersfield, 165 metres.	350°, 4	355°, 5·3	350°, 6·5	357°, 7·5											
13	February 7th, 4.28 p.m.	Ditcham Park Petersfield, 165 metres.	135°, 7·5	140°, 11·5	130°, 12	155°, 6	150°, 6	? 2·5	280°, 2·5	315°, 2·5	270°, 2·5						
14	February 12th, 5.8 p.m.	Ditcham Park, Petersfield, 165 metres.	30°, 18·5 ?	33°, 21·5	50°, 22·5	65°, 25	75°, 16	60°, 16·5	65°, 9·5	45°, 10	55°, 17·5						
15	February 13th, 5.6 p.m.	Ditcham Park, Petersfield, 165 metres.	30°, 7·5	35°, 14·5	70°, 15	60°, 13·5	50°, 15·5	30°, 13·5	35°, 16	30°, 17·5							
16	February 13th, 3.9 p.m. to 3.33 p.m.	Howard Estate, Glossop, 335 metres.	78°, 2	25°, 4	0°, 2·0	25°, 8·0	28°, 10·9	19°, 11·5	12°, 10·9	11°, 9·6	20°, 8·6						

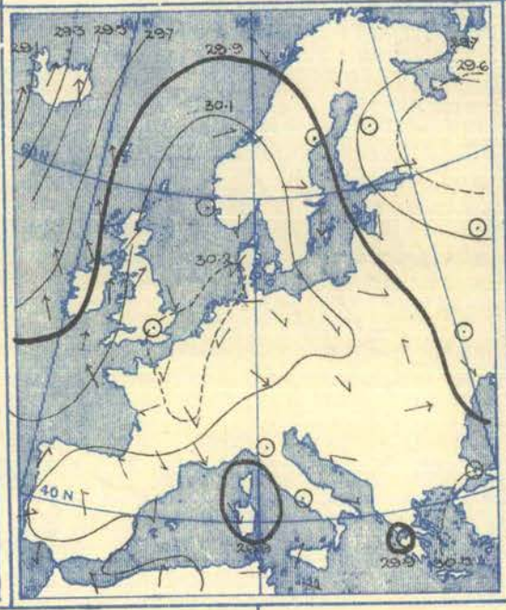
NOTES.—No. **1.**—Registering Balloon. Two theodolites. Entered clouds at 1,050 metres.
Nos. **2, 6, 7, 9.**—Pilot Balloon. One theodolite. Rate of ascent assumed.
No. **3.**—Registering Balloon. Two theodolites to 2·5 kilometres.
Nos. **8, 10, 12.**—Pilot Balloon. Two theodolites.
No. **11.**—Pilot Balloon. Two theodolites to 2·4 kilometres.
No. **13.**—Pilot Balloon. One theodolite. Balloon burst at 4,000 metres.
Nos. **14-15.**—Pilot Balloons. One theodolite.
No. **16.**—Pilot Balloon. One theodolite used. Ascensional velocity assumed, 2·6 metres per second.

Sunday, 7th February, 1909.

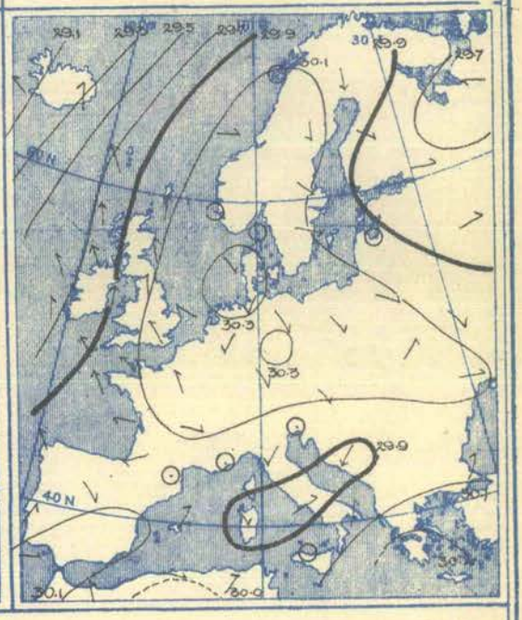
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater portion of our area, but rain falling on the west coast of Ireland and snow in Germany and at Archangel. Fog prevailing in some English localities, as well as at Brussels, Le Mans, and Limoges. About an inch of rain later in the west of Ireland, 0·8 in. at Patras, and 0·6 in. at Lesina. Smaller amounts in some parts of Germany and Italy.

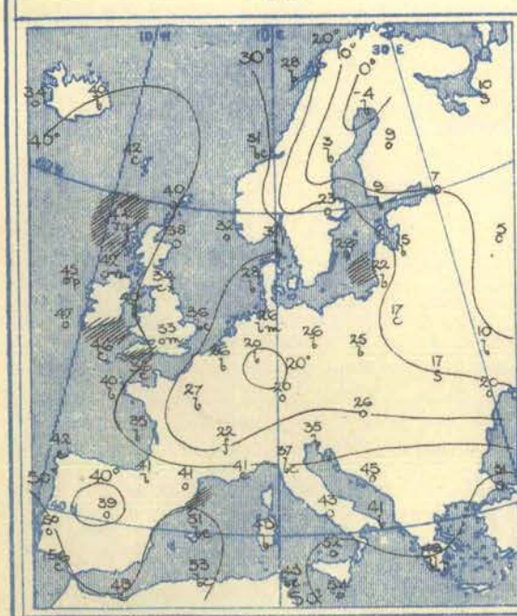
Temperature fallen in most regions. Morning readings below 25° in central England, below 20° in Russia, and as low as -11° at Haparanda. Increasing to about 50° at some places in the far south of our area, and also on the south-west coast of England. Remaining below 38° all day at some stations in central England, but exceeding 40° over these Islands generally, and reaching or exceeding 50° over the Mediterranean. Frost continuing in various parts of the central countries and throughout Russia and Scandinavia.

Wind in morning moderate to strong from the Southward over the west of these Islands and in Iceland, and moderate from the Northward over Sweden and the Baltic. A cyclonic circulation of little force prevailing over the Mediterranean. Southerly current increasing to a gale later at Roche's Point and extending as a light breeze to nearly the whole of England. No other change of importance.

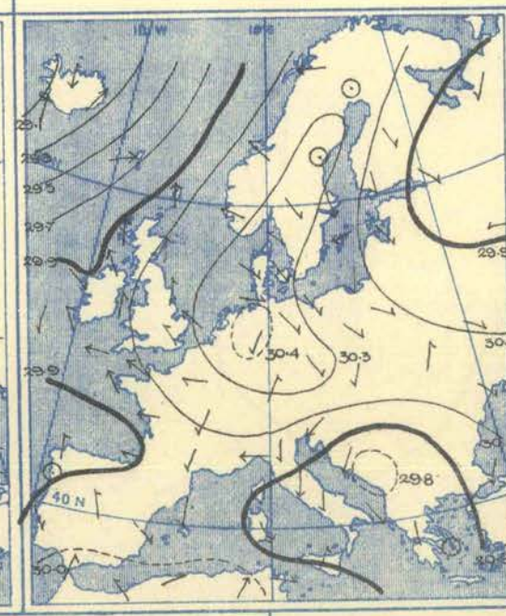
Barometer in morning above 30·2 ins. in an irregularly shaped area over the south-east of England and the adjacent part of the Continent. Below 29·9 ins. in a depression covering Sardinia and Corsica, below 29·6 ins. in another system over northern Russia, and below 29·1 ins. over the west of Iceland. Not much change taking place in the general distribution of pressure during day; barometer falling very slowly over these Islands, and rising within the high pressure system on the Continent. Both high and low pressure systems showing a tendency to travel eastwards.

Monday, 8th February, 1909.

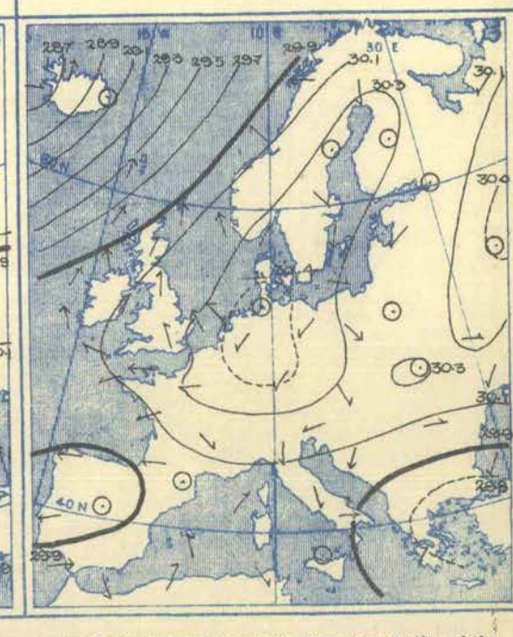
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying a good deal; fine and bright in several localities, overcast in others, and rainy at some of our most western and north-western stations, as well as at Oporto and Constantinople, and snowy in Poland and at Archangel. Some rain later at various places in the west and north of these Islands, larger quantities in Spain and at Patras, and more than 1·25 in. at Brindisi.

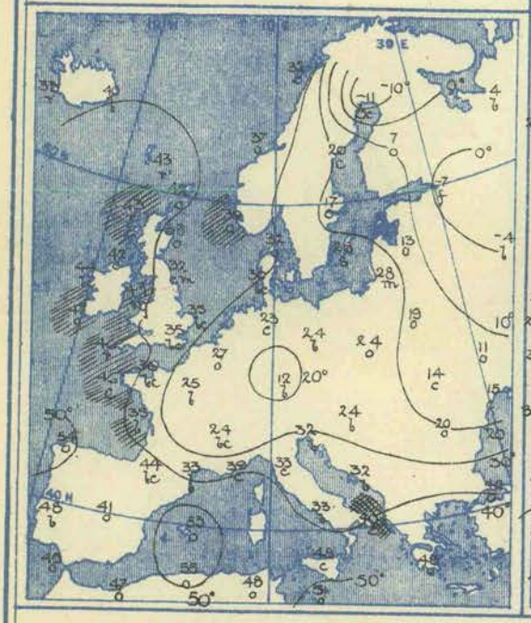
Temperature fallen over the central countries. Morning readings ranging from about 50° at a few places in the far south of our area, and about 45° along our own Atlantic coast, to below 32° over most of the mainland of Europe, and to 10° or below in the east and north-east. Thermometer remaining below 40° all day in the midlands and east of England, and below 32° over the major portion of central Europe. Maxima no higher than 50° at many places in the south of our area, but above 60° at some coast stations in Algeria.

Wind in morning showing an extensive anticyclonic movement over the greater portion of the Continent, a cyclonic circulation over the south of our area, and a South-Westerly current between Iceland and Scotland. A fresh to strong breeze prevailing in places, and a high wind at Stornoway, but little force generally. Little change later; Southerly wind increasing in strength in Iceland.

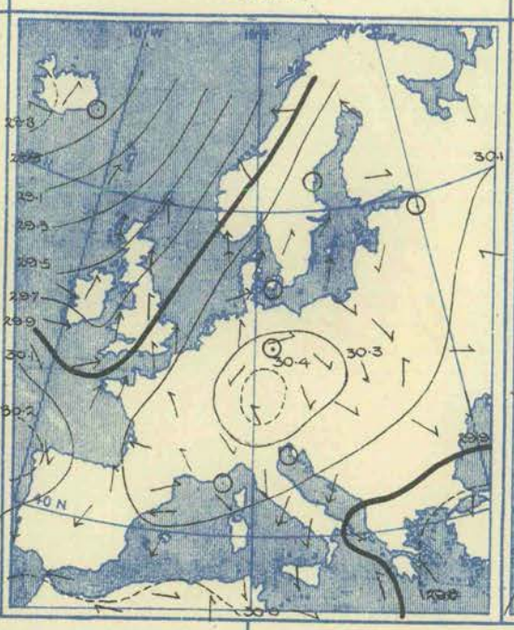
Barometer in morning above 30·4 ins. in a large high pressure system having its centre over western Germany; below 29·9 ins. in a large depression over the northern half of Russia and also in another disturbance in the south-east of our area, and below 29·1 ins. to the westward of Iceland. Pressure continuing to decrease briskly in Iceland and slowly in Scotland, but German anticyclone maintaining its position, and little modification occurring in the general distribution.

Tuesday, 9th February, 1909.

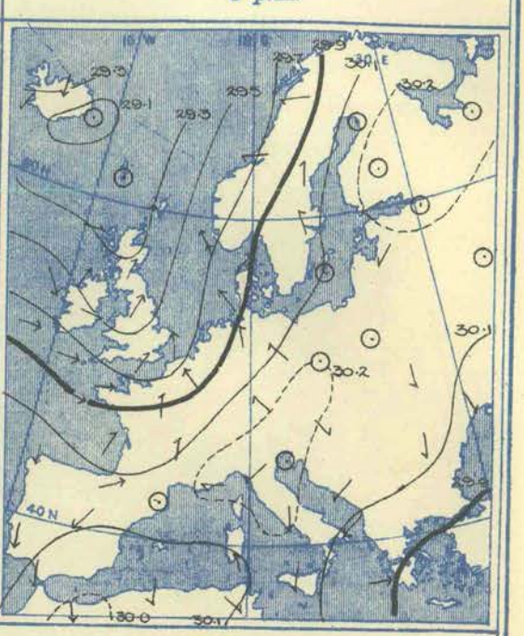
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright over the south of our area, and also over much of the mainland of the Continent. Overcast at most of our own stations, with rain in the west. Snow falling at Wisby. Some rain or sleet experienced later throughout these islands, and more or less rain in many parts of France and the Spanish Peninsula. A thunderstorm occurring at Rochefort and its vicinity.

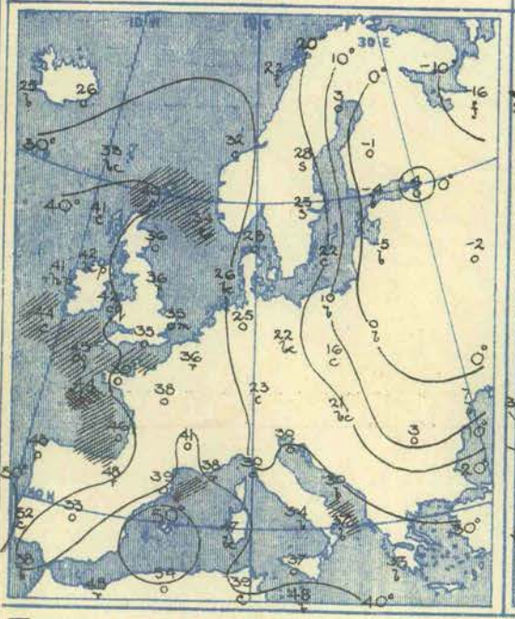
Temperature changed rather irregularly; fallen over Italy and the greater portion of Russia. Morning readings a little above 32° in most parts of England and Italy, and above 50° at a few spots in the far south of our area and at Corunna. Below 20° in Bavaria and at nearly all stations in the east and north of Europe, and below zero in places. Maxima during day below the freezing point in the central countries, Russia, and Sweden, and below 45° over a large portion of Italy, but above 60° on the north coast of Africa. Sharp frost at night over the northern half of Italy; minimum at Rome 25°.

Wind in morning showing an anticyclonic circulation over the Bay of Biscay and the surrounding regions, a complete cyclonic movement over Russia, and partial cyclonic movements both in the north-west and south-east of our area. Northerly current strong to a gale over the Baltic, that from North-West fresh to strong on some shores of the Mediterranean, and Westerly current strong between Scotland and Iceland. Veering to the Northward later on our western coasts and increasing greatly in strength, and Southerly wind increasing to a gale on the south-west coast of Norway.

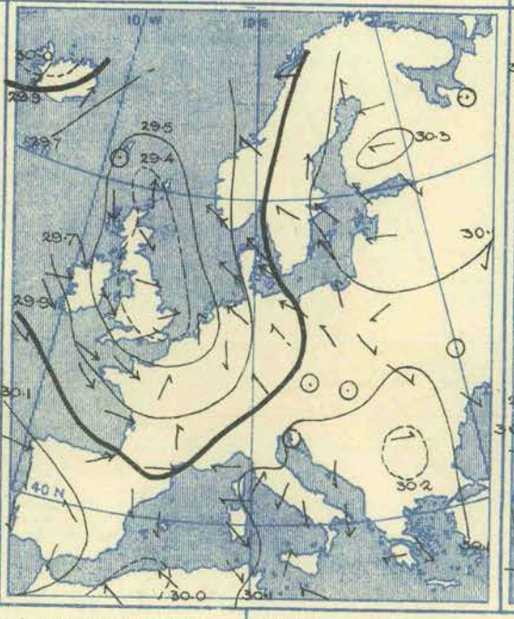
Barometer in morning above 30·4 ins. in a large high pressure system having its maximum over Bavaria; below 29·8 ins. in the south-east of our area, and below 29·8 ins. over the west of Iceland. Relatively low in a "V-shaped" secondary over our western districts. [illegible] disturbance and its secondary travelling eastwards and south-eastwards subsequently, and pressure beginning to increase briskly in Iceland. Anticyclone in central Europe giving way decidedly.

Wednesday, 10th February, 1909.

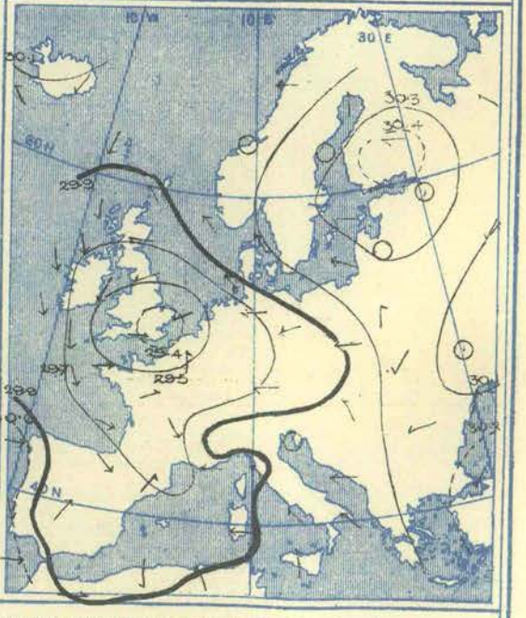
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast or very cloudy over these Islands and the regions immediately surrounding, with snow at Clacton-on-Sea, and rain in several other localities, as well as in the south of France and at Nemours. Snow falling at some stations in Sweden. More than an inch of sleet and snow at Clacton-on-Sea during day, and smaller quantities of sleet or rain in this country generally. Very heavy rain or snow in the south of France and north of Italy. As much as 1·5 in. of rain at Biarritz and between one and two inches of melted snow at Nice and Lugano. Snow lying about 6 inches deep at Nice.

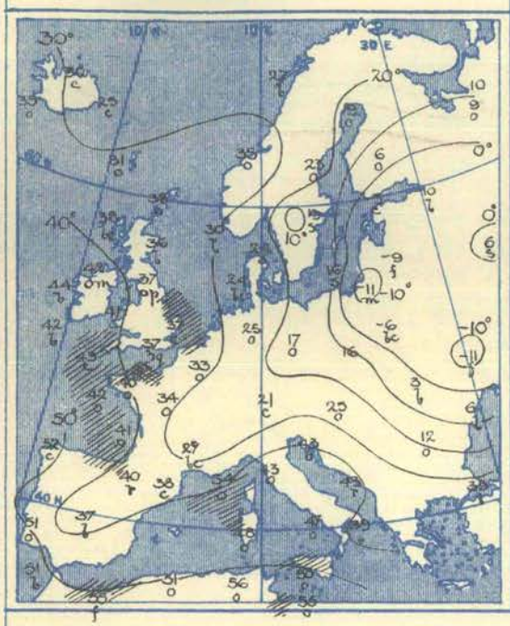
Temperature risen in France, South Germany, and Sweden, fallen generally elsewhere. Morning readings much below zero over a large part of Russia, below 20° over most of central Europe, and as low as 33° at Athens and 34° at Naples. Increasing to about 50° at Lisbon and on the northern coast of Africa. Maxima during day below 40° in several parts of England, below 50° in the south of France and over nearly the whole of Italy, but thermometer rising to 66° at Algiers. Frost continuing all day in the central countries and Russia. Maximum at St. Petersburg 5°, and minimum at night -22°.

Wind in morning showing a well marked cyclonic movement over these Islands and the west of our area generally; North-Westerly current strong to a gale on our western coasts, and South-Easterly current blowing a gale beyond the North Sea. Light to moderate anticyclonic breezes prevailing in the east of our area. Veering towards East on our north and north-east coasts during day. Increasing in force from various directions on some shores of the Mediterranean.

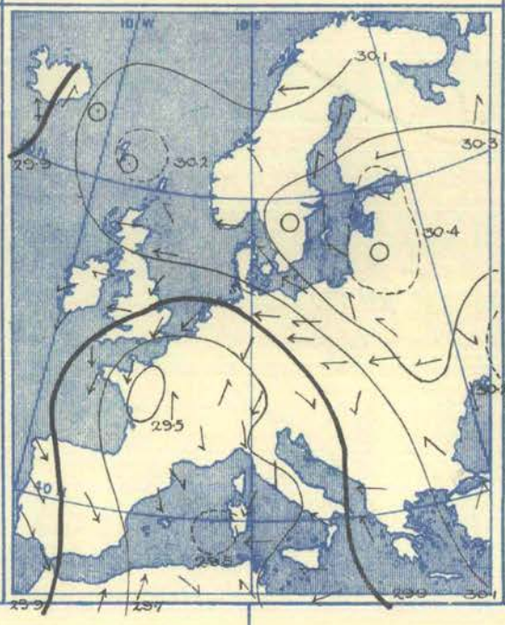
Barometer in morning above 30·3 ins. in central Finland and above 30·2 ins. in Transylvania. Below 29·4 ins. in a depression over the east of Great Britain and the adjacent waters of the North Sea. Above 30·1 ins. over the western half of the Spanish Peninsula. Depression travelling southwards during day and undergoing much modification in form, and recovery of pressure very brisk to rapid in its rear over Scotland and between that country and Iceland. A secondary disturbance of considerable depth forming over the south-east of France and its vicinity.

Thursday, 11th February, 1909.

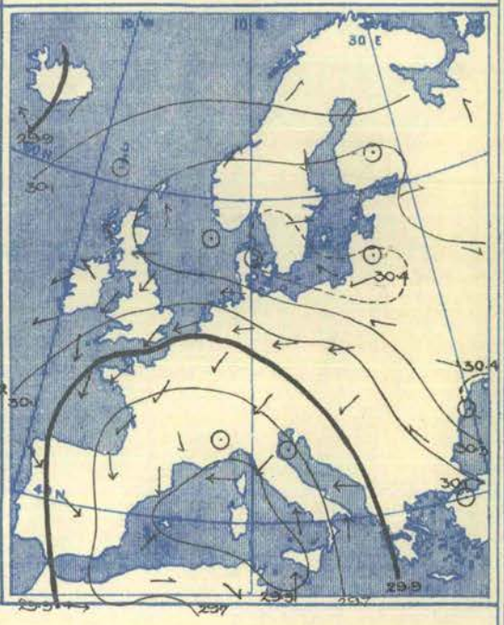
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast in nearly all parts of France, England, and a considerable portion of the adjacent region, with rain in several places, and snow at Lugano. Fair or fine and bright in the east and north-east of our area, but snow falling at Stockholm and Wisby. A little rain, snow, or sleet in Great Britain later, heavy snow at Berne and Helsingfors, and very heavy rain at some places in the south of our area. Largest measurement 3·15 ins. at Sanguinaire.

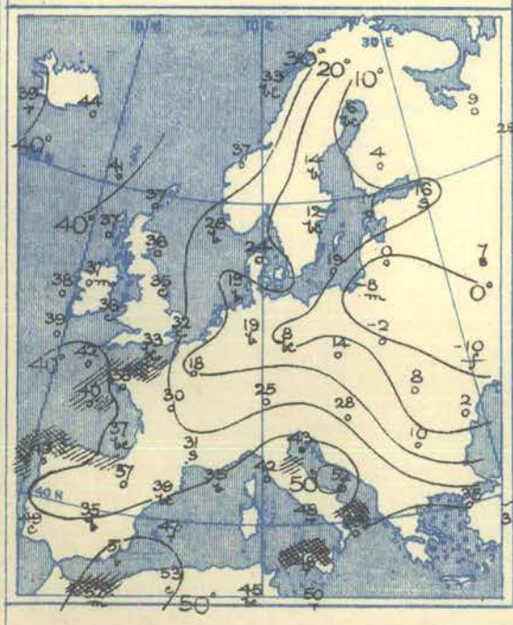
Temperature fallen in most districts. Readings in morning ranging from about 50° at a few places in the extreme south and south-west of our area to below 32° generally, below 20° over the eastern half of Europe, and to much below zero in some localities. Severe frost continuing all day in the central and northern countries, and thermometer rising only a few degrees above 32° in the south of France. Maxima below 40° in many parts of England. Intense frost at night over Germany, minimum at Berlin 7° and at Memel –13°.

Wind in morning cyclonic over France and the surrounding countries, and anticyclonic in the north and north-east. Strong from various quarters on some shores of the Mediterranean, and strong to fresh from the Eastward over the North Sea region and the English Channel. A gale from South-East prevailing at Reykjavik. Very little change during day; some increase in force at several stations in the south of our area.

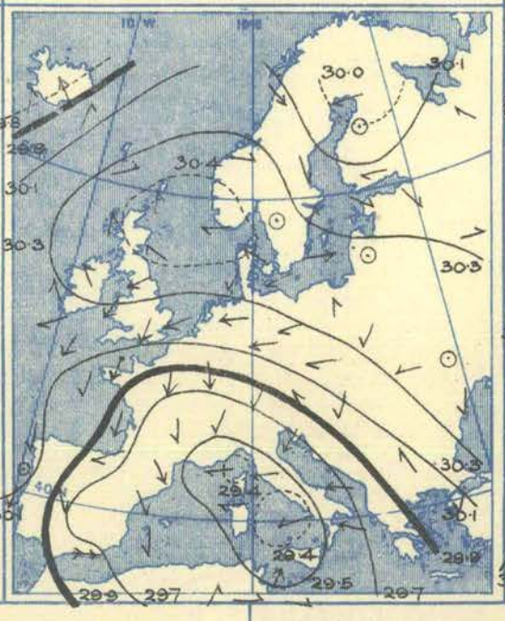
Barometer in morning above 30·4 ins. over a portion of Russia and Finland, and above 30·2 ins. to the northward of Scotland. Below 29·6 ins. in a large and complex disturbance containing two minima—one over the north of France, and the other over the Mediterranean. Anticyclone increasing both in size and intensity during day, and barometer falling still lower over the Mediterranean. Rise continuing steadily in Scotland and briskly in England and the nearer regions of the Continent, but a slight fall commencing in Iceland.

Friday, 12th February, 1909.

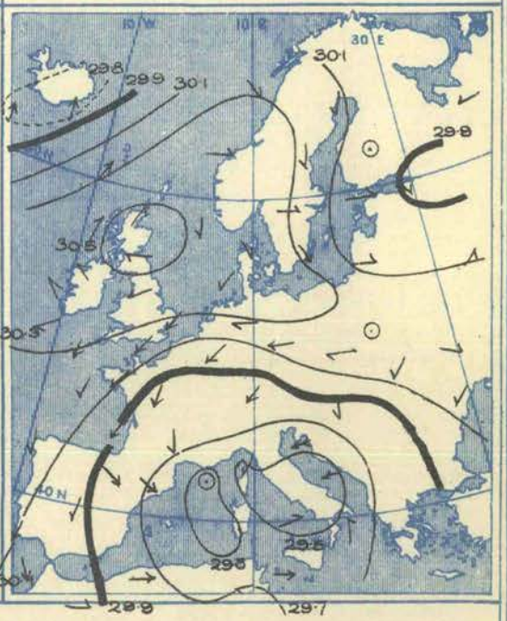
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and unsettled over the south of our area, with rain in several localities and snow at Lugano. Dry, but mostly overcast, elsewhere; sky clear in most parts of Scandinavia, Denmark, and north Germany. Snow falling at St. Petersburg and Moscow. Some rain and snow later at Biarritz, Bordeaux, and Perpignan, and heavy falls of either rain or snow in nearly the whole of Italy.

Temperature fallen in most regions. Morning readings much below zero at some stations in Russia and East Prussia, and only 8° at Berlin. Between 31° and 33° over a large portion of England and France, above 45° at various places in the south and south-west of our area, and above 50° on the coast of Algeria. Maxima during day not above 35° in some parts of England, and below 32° over the central countries of the Continent and in the east of France. Minima during night as low as 22° at Nairn and Birr Castle, 32° at La Calle, and 27° at Aumale.

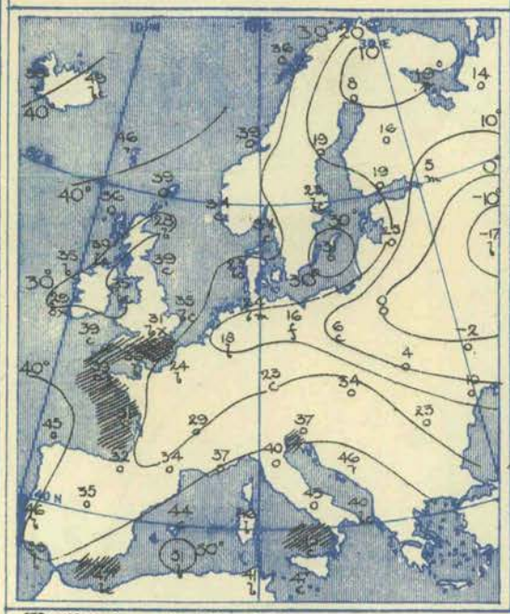
Wind in morning showing a well marked anticyclonic circulation over the northern countries, and an equally well marked cyclonic movement over the Mediterranean and its neighbourhood. North-Easterly current strong to high on our south-east and south coasts, the Low Countries, and the north of France, fresh from various directions in the south of Europe, and blowing a gale from the Westward at Alicante. Little change later as a whole; wind increasing to a gale from the Eastward at Trieste.

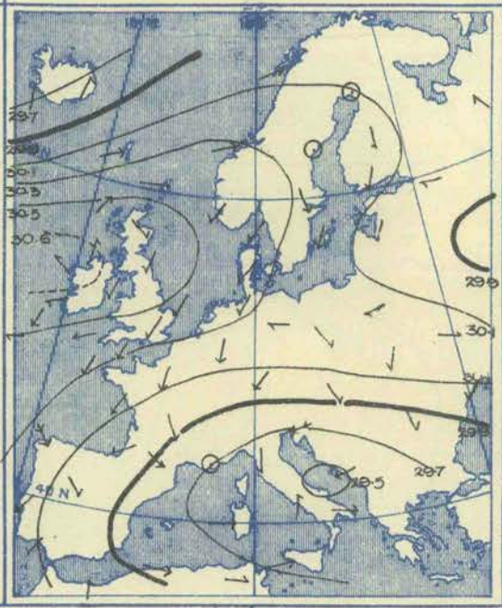
Barometer in morning ranging from above 30·4 ins. in a high pressure system having its maximum over the upper portion of the North Sea to below 29·4 ins. in a large depression having its centre over Italy. Relatively low in the far north and north-west of our area. Anticyclone increasing in intensity and moving southwards during day, and barometer falling between Shetland and Iceland. No important modification taking place in the general distribution of pressure.

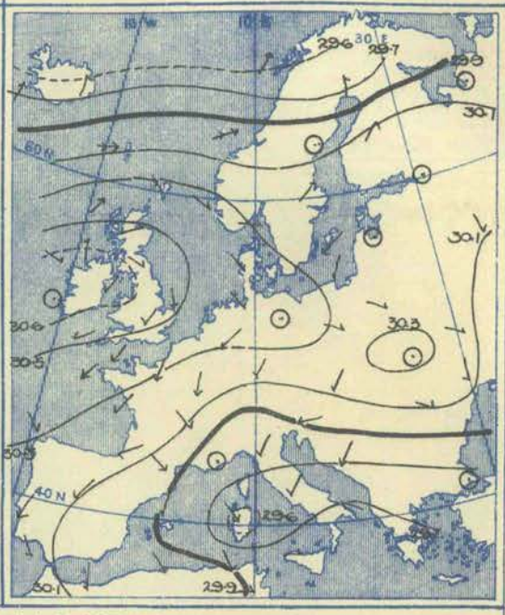
Saturday, 13th February, 1909.

Temperature and Weather. — 7 a.m.

Barometer and Wind. — 7 a.m. | 6 p.m.







Weather in morning fair or fine in nearly all parts of this country and its neighbourhood, and also in some southern districts. Overcast generally; rain falling at Pesaro and Lesina, and snow at Cracow. Rain falling later at many places in the south of our area, and a thunderstorm occurring at Algiers.

Temperature risen over the Baltic and Scandinavia, fallen in most other regions. Morning readings below zero in central Russia, and below 32° over most of the mainland of Europe, as well as in some parts of these Islands. Above 40° at most stations in the south of our area, and as high as 51° at Algiers. Maxima during day below 40° in several parts of England, and below 30° over nearly the whole of central Europe. Thermometer remaining below 40° at some stations in the extreme south of France, and only touching 50° at Palma. Sharp frost at night in the central counties of Ireland and England.

Wind in morning mainly Westerly to South-Westerly in the north-west of our area, Northerly over Sweden and Denmark, and North-Easterly over England, the Low Countries and France. Light or moderate generally, but fresh to high on the English Channel. A cyclonic circulation of moderate to fresh breezes prevailing over the Mediterranean and Italy, but Easterly current blowing a gale at Trieste, and a gale from North-West reported at Corunna. Westerly current increasing to a gale by evening between Norway and Iceland, but not much change as a whole.

Barometer in morning ranging from above 30·5 ins. over nearly the whole of these Islands to less than 29·9 ins. in central Russia, below 29·6 ins. in the north-west of Iceland, and to below 29·5 ins. in a depression over the Adriatic. Not much modification occurring in the general distribution of pressure during day. Barometer rising in Russia, rising slightly over England, and falling in Scotland and over the Icelandic region. Gradient increasing both in north and south of our area.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees from North through East) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Feb. 7th, 10.26 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	76° 90% 120°, 4	?° 90% 140°, 7	?° 90% 150°, 7					72 ?° 80% 150°, 5	720	Little cu.-str. and light cu. Lowest clouds, 620 m. Wind very light above, kite carried up by convection current.
2	Feb. 8th, 9.38 a.m. to 10.13 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	72·5° 77% 180°,4	72·5° 75% 185°, 18	73° 72% 186°, 9	72·5° 55% 202°, 14				72·5° 55% 202°, 14	1,000	Fair, cold, overcast. Ground wind gusty, steady wind above.
3	Feb. 8th, 10.14 a.m. to 11.26 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	74° 95% 110°, 5	73·5° 95% 110°, 8	72° 100% 120°, 12	73° 40 % 120, 12				73° 40% 120°, 12	1,060	Clouds at 600 m. Overcast to clear. Temp. higher on descent than on ascent.
4	Feb. 8th, 11.45 a.m. to 1.58 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	73° 88% 202°, 5	72·5° 85% 202°, 6	72·5° 83% 202°, 7·0	72·5° 60% 202°, 13				236 ?°	1,900	Clock stopped. Up to 1,900 metres min. temp. 70°, max. temp. 76°, min. humidity 50%. A.S. clouds not reached.
5	Feb. 9th, 10.25 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	75° 80% 160°, 6	74·5° 85% 165°, 12	73° 100% 180°, 17					72° 100% 180°, 17	750	Upper wind dropped suddenly, and kite could only be kept up by rapid winding in. Very uncertain wind.
6	Feb. 9th, 12.42 p.m. to 1.22 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	73·5° 96% 180°, 8	73·5° 100% 180°, 13	73·5° 100% 180°, 14	73° 100% 193°, 20				73° 100% 202°, 18	1,120	Snow falling. Overcast. Clouds, 336 m. Wind gusty. Isothermal zone, 700 to 1,100 m.
7	Feb. 10th, 1.21 p.m. to 3.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	73·5° 100% 326°, 4	73° 100% 327°, 9	73° 100% 328°, 10	71° 100% 341°, 15				70° 100% 349°, 16	1,140	Snow falling. Clouds, 336 m. in morning, 396 m. later. Calm morning. Gentle breeze at noon, diminishing later.
8	Feb. 11th, 9.55 a.m. to 10.5 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	74·5° 90% 25°, 7	74° 90% 45°, 12	72° 100% 65°, 15					70·5° 80% 65°, 18	950	Clouds at 500 m. Wind very gusty to 600 m., very steady above. Passing clouds, snow showers later.
9	Feb. 11th, 12.50 p.m. to 1.22 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	73° 100% 38°, 8	72° 100% 37°, 10	71·5° 100% 40°, 12					69° 100% 61°, 16	950	Snow falling all day. Fresh breeze, fairly steady. Clouds at 360 m.
10	Feb. 11th, 1.53 p.m. to 2.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	73° 100% 33°, 8	72·5° 100% 35°, 10	72° 100% 38°, 11	69° 100% 45°, 17	68·5° 100% 54°, —			68·5 100% 56°, —	1,590	Clouds at 430 metres. Clock stopped at top height. Large deposit of ice on kite and wire.
11	Feb. 12th, 12.19 p.m. to 3.33 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	71° 82% 45°, 9	70° 84% 52°, 12	69° 85% 56°, 13	67° 92% 70°, 16	70° 35% 85°, 14			69·5° 35% 85°, 14	1,700	Fine and bright, but cold. Very clear. Thin clouds (Fr.-cu.) at 800 m.
12	Feb. 13th, 12.40 p.m. to 1.22 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	74·5° 76% 70°, 8	73·5° 75% 55°, 7	73·5° 75% 55°, 8					73·5° 75% 55°, 8	500	Ground wind remarkably steady. Fine and bright. Kite got up in a gust.

63, Victoria Street, London, S.W. *February 17th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 7. SEVENTH WEEK, SUNDAY FEBRUARY 14TH TO SATURDAY FEBRUARY 20TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—A little rain fell from time to time on our extreme west and north-west coasts, and several other districts experienced an occasional slight shower, but over Great Britain as a whole the conditions were exceedingly fine and bright. In Ireland the weather was more cloudy, but usually fine and dry.

Temperature was below the normal in England and above it in Scotland and the major part of Ireland, the greatest divergence being +3°·2 in Scotland N. The highest of the maxima were recorded at most stations either on the 15th or 20th, and ranged from 55° in England N.W. to 49° in England E. The lowest of the minima, which occurred at most places on the 14th, varied from 16° in South Wales (at Llangammarch Wells), 18° in England S.E. and 19° in the Midland Counties and Ireland S. to 29° in Scotland N. and to 33° in the English Channel. The lowest grass readings reported were 3° at Llangammarch Wells, 11° at Greenwich, 12° at Hereford, 13° at Kew, and 14° at Birmingham and Markree Castle. At several other stations the readings were below 20°.

Mean Temperature of the Sea.—On almost all parts of the coast the water was colder than during the corresponding week of last year, the greatest difference being 3°·1 at Margate. The actual values for the week ranged from 47°·1 at Plymouth and about 46° at Newquay and on the south-west coast of Ireland to about 39°·5 at Aberdeen and Scarborough, and to 37°·4 at Margate.

Rainfall was much less than the average in all districts; at many stations in Central England and in some other localities the week was rainless.

Bright Sunshine exceeded the normal in Great Britain, the excess being very large in England, but was below the average in Ireland. The percentage of the possible duration ranged from 55 in the English Channel, 54 in England S.E. 49 in England S.W. and about 45 in most other parts of England to 28 in Scotland N., 25 in Ireland S., and to 17 in Ireland N.

Barometer and Wind.—The pressure distribution was anticyclonic throughout the week. At first the highest barometer readings were found over Ireland, when the general direction of the wind was between West and North-West or North, this condition lasting with little modification until Tuesday. On Wednesday the anticyclonic centre lay over France, while a ridge extended thence to Scotland, so that while the wind continued North-Westerly in the east of England, it had become Southerly in all the western districts. From this position the highest pressure passed on to South Germany, and on Saturday it covered the western regions of that country and the whole of Holland. The wind over the greater part of the United Kingdom was consequently from the Southward, but on the south and south-west coasts of England it was mainly South-Easterly. A strong breeze was sometimes experienced on exposed parts of the west coast and a high wind in the Minch.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 44.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1 Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Unusual	Moderate	Moderate
	Rainfall ...	Light	Very light	Very light	Light	Very light	Very light	Light	Very light	Very light	Light	Very light	Very light
	Sunshine ...	Abundant	Abundant	Abundant	Abundant	Very abundant	Very abundant	Abundant	Very abundant	Very abundant	Scanty	Moderate	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1908–9. 12 weeks from Nov. 29th, 1908.	Warmth ...	3 * 1	3 * 1	2 * 5	4 * 4	2 * 4	4 * 4	3 * 1	4 * 4	4 * 4	6 * 0	4 * 1	5 * 3
	Rainfall ...	2 * 4	2 * 5	0 * 5	2 * 7	2 * 6	3 * 7	4 * 2	2 * 5	3 * 7	3 * 3	3 * 5	4 * 7
	Sunshine ...	5 * 2	5 * 2	3 * 3	3 * 5	3 * 5	4 * 3	4 * 2	7 * 1	5 * 2	3 * 4	2 * 4	5 * 3

PAST SEASONS.

WINTER, 1907–8. Dec. 1st–Feb. 29th. 13 weeks.	Warmth ...	4 * 2	4 * 1	3 * 4	4 * 3	4 * 3	5 * 4	5 * 3	4 * 4	3 * 3	5 * 3	5 * 3	4 * 2
	Rainfall ...	4 * 4	6 * 5	4 * 6	5 * 5	4 * 8	3 * 7	7 * 3	8 * 4	3 * 4	6 * 3	2 * 3	4 * 5
	Sunshine ...	4 * 3	5 * 1	3 * 2	5 * 5	3 * 4	6 * 2	1 * 3	6 * 2	3 * 3	3 * 4	3 * 3	2 * 3
SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

SEVENTH WEEK—February 14th to 20th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	52	29	45·9	35·1	40·6	+ 3·2	11	+ 4	28	− 13	3	− 2	0·25	− 0·88	17	+ 3	28	+ 5
Eastern																		
1. SCOTLAND, EAST	53	22	46·0	31·5	38·8	+ 2·1	11	+ 3	40	− 6	2	− 2	0·05	− 0·48	23	+ 4	36	+ 6
2. ENGLAND, N.E.	50	23	44·0	30·5	37·2	− 1·2	6	− 4	41	+ 6	1	− 2	0·03	− 0·32	24	+ 5	36	+ 8
3. ENGLAND, EAST	49	21	43·9	29·6	36·8	− 1·4	5	− 6	45	+ 6	2	− 1	0·06	− 0·30	31	+ 12	46	+17
4. MIDLAND COUNTIES	52	19	45·1	27·6	36·4	− 2·0	9	− 4	53	+ 14	1	− 2	0·01	− 0·42	31	+ 14	46	+21
5. ENGLAND, S.E.	53	18	44·5	29·7	37·1	− 2·6	7	− 7	45	+ 15	1	− 3	0·02	− 0·45	37	+ 18	54	+27
Western																		
6. SCOTLAND, WEST	52	23	45·5	34·7	40·1	+ 1·3	10	+ 1	28	− 6	2	− 2	0·11	− 0·83	21	+ 6	31	+ 8
7. ENGLAND, N.W.	55	22	44·6	32·0	38·4	− 0·9	7	− 4	38	+ 8	1	− 3	0·03	− 0·52	30	+ 13	44	+19
8. ENGLAND, S.W.	52	16	45·7	32·2	40·0	− 1·0	10	− 7	44	+ 20	1	− 2	0·01	− 0·71	33	+ 15	49	+22
9. IRELAND, NORTH	52	23	47·1	37·1	42·2	+ 1·8	22	+ 7	14	− 12	2	− 2	0·07	− 0·58	11	− 6	17	− 9
10. IRELAND, SOUTH	53	19	47·9	35·9	41·9	0·0	17	− 4	25	+ 4	2	− 2	0·07	− 0·71	17	− 2	25	− 3
11. ENGLISH CHANNEL	53	33	47·6	37·6	42·6	− 1·3	23	− 1	12	+ 1	1	− 4	0·01	− 0·63	38	+ 15	55	+22

THE SEASON (**Winter**). Aggregates, &c., for the Period of 12 Weeks, November 29th, 1908, to February 20th, 1909.

0. SCOTLAND, NORTH	56	19	*	*	*	*	106	+ 19	294	−124	65	+ 2	15·34	− 0·16	78	+ 1	13	0
Eastern																		
1. SCOTLAND, EAST	58	16	*	*	*	*	90	+ 2	441	− 52	42	− 7	5·83	− 1·39	129	+ 9	21	+ 1
2. ENGLAND, N.E.	56	11	*	*	*	*	66	− 36	456	+ 60	38	− 5	3·10	− 2·05	132	+ 4	20	+ 1
3. ENGLAND, EAST	58	7	*	*	*	*	81	− 31	408	− 42	42	− 4	3·29	− 1·59	151	+ 5	22	+ 1
4. MIDLAND COUNTIES	57	3	*	*	*	*	97	− 31	454	+ 3	41	− 4	3·61	− 2·42	129	+ 5	19	+ 1
5. ENGLAND, S.E.	56	3	*	*	*	*	148	− 16	332	− 1	39	− 7	4·36	− 2·05	174	+ 33	25	+ 5
Western																		
6. SCOTLAND, WEST	56	21	*	*	*	*	115	− 12	279	− 48	56	0	12·92	− 0·21	109	+ 3	17	+ 1
7. ENGLAND, N.W.	57	16	*	*	*	*	115	− 16	321	0	47	− 3	6·90	− 1·39	155	+ 45	23	+ 7
8. ENGLAND, SW	57	13	*	*	*	*	196	− 17	221	− 23	48	− 4	7·03	− 3·57	181	+ 37	26	+ 5
9. IRELAND, NORTH	55	22	*	*	*	*	210	+ 47	188	− 91	95	+ 1	9·54	+0·05	119	− 5	18	− 1
10. IRELAND, SOUTH	59	19	*	*	*	*	310	+ 55	155	− 56	56	+ 1	8·51	− 2·71	136	− 10	20	− 2
11. ENGLISH CHANNEL	57	25	*	*	*	*	362	+ 34	79	− 9	46	− 12	7·47	− 1·53	215	+ 34	30	+ 5

THE YEAR.—Aggregates, &c., for the Period of 7 Weeks, January 3rd to February 20th, 1909.

0. SCOTLAND, NORTH	56	19	*	*	*	*	35	− 12	196	− 61	37	0	8·35	− 0·76	58	+ 3	16	+ 1
Eastern																		
1. SCOTLAND, EAST	58	18	*	*	*	*	34	− 19	273	− 20	24	− 4	3·82	− 0·16	91	+ 5	24	+ 1
2. ENGLAND, N.E.	56	17	*	*	*	*	33	− 28	281	+ 47	19	− 6	1·60	− 1·11	104	+ 17	26	+ 4
3. ENGLAND, EAST	58	17	*	*	*	*	35	− 30	272	+ 7	22	− 4	1·34	− 1·35	131	+ 33	32	+ 8
4. MIDLAND COUNTIES	57	13	*	*	*	*	42	− 35	298	+ 36	19	− 7	1·58	− 1·78	105	+ 21	25	+ 5
5. ENGLAND, S.E.	56	17	*	*	*	*	64	− 25	230	+ 30	17	− 9	1·31	− 2·25	140	+ 49	33	+11
Western																		
6. SCOTLAND, WEST	53	21	*	*	*	*	47	− 24	176	− 24	30	− 2	7·20	0·00	80	+ 7	20	+ 2
7. ENGLAND, N.W.	57	16	*	*	*	*	53	− 19	210	+ 18	24	− 5	3·91	− 0·69	113	+ 38	28	+ 9
8. ENGLAND, S.W.	54	13	*	*	*	*	81	− 36	178	+ 27	22	− 7	2·52	− 3·10	138	+ 45	33	+11
9 IRELAND, NORTH	55	22	*	*	*	*	104	+ 8	113	− 54	33	0	5·19	− 0·06	74	− 7	18	− 2
10. IRELAND, SOUTH	59	19	*	*	*	*	145	+ 1	106	− 20	28	− 3	3·96	− 2·09	93	− 1	23	0
11. ENGLISH CHANNEL	54	25	*	*	*	*	162	− 11	70	+ 10	22	− 11	2·92	− 1·78	152	+ 35	35	+ 8

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation, (generally 7 a.m. or 9 a.m.) at Stations marked *a* and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℜ is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. a, Islands.	*p Balta Sound* S	*48*	*14th*	*31*	*16th*	*42·9*	*34·0*	*38·5*	—	*3*	*29*	*5*	*0·32*	—	*15·7*	—	*26*	—	*Balta Sound.*
	a Sumburgh Head ..	47	14th, 18th	31	17th	43·9	35·1	39·5	+ 1·5	5	25	3	0·14	- 0·62	24·7	+11·3	40	+18	Deerness.
	a Stornoway	50	14th	36	14th	46·1	39·6	42·9	+ 4·0	16	7	4	0·16	- 0·88	5·1	- 9·6	8	-15	Stornoway.
	a Castlebay, Barra Isd.	*49*	*14th*	*38*	*14th*	*46·7*	*41·9*	*44·3*	*+ 2·9*	*17*	*0*	*3*	*0·18*	—	*9·0*	—	*14*	—	*Castlebay.*
b, Mainland.	a Wick	50	14th	30	14th	45·4	34·3	39·9	+ 2·4	10	30	3	0·25	- 0·30	*	*	*	*	* *
	p Strathpeffer	51	20th	31	19th	46·9	34·4	40·7	+ 3·5	14	30	2	0·19	- 0·47	21·0	+ 6·0	33	+ 9	Strathpeffer.
	p Glencarron .. 𝔖	52	20th	29	20th	46·1	33·4	39·8	+ 3·3	11	33	3	0·54	- 1·25	*	*	*	*	* *
	p Fort Augustus 𝔖	50	20th	30	18th	46·8	33·9	40·4	+ 2·4	13	32	1	0·17	- 0·85	18·3	+ 8·2	29	+13	Fort Augustus.
	p Fort William 𝔖	49	14th	33	17th	46·4	35·2	40·8	+ 1·7	12	27	3	0·31	- 1·49	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle 𝔖	53	18th, 20th	29	20th	48·9	33·5	41·2	+ 2·9	19	35	2	0·07	- 0·45	*25·0*	—	*39*	—	*Gordon Castle.*
	a Nairn	52	14th, 20th	22	14th	47·9	31·3	39·6	+ 2·2	17	42	3	0·05	- 0·40	24·2	—	38	—	Nairn.
	a Aberdeen	52	14th	27	14th	45·9	33·9	39·9	+ 2·0	11	31	2	0·04	- 0·49	25·7	+ 8·0	40	+13	Aberdeen.
	a Balmoral .. 𝔖	49	17th	27	19th	45·9	30·3	38·1	+ 4·1	11	44	2	0·15	- 0·51	27·2	—	43	—	Crathes S.
	p Crieff .. .. 𝔖	49	14th	27	20th	45·7	31·8	38·8	+ 0·9	10	39	0	0·00	- 0·83	23·1	—	36	—	Balruddery
	a Leith	49	14th	28	20th	45·6	32·4	39·0	- 0·2	10	36	2	0·03	- 0·34	17·0	+ 3·5	26	+ 5	Edinburgh.
	a West Linton.. S	46	20th	23	14th	42·5	28·5	35·5	- 1·0	1	48	1	0·02	—	*22·5*	—	*35*	—	*West Linton.*
	p Marchmont .. 𝔖	50	20th	28	19th	45·3	30·6	38·0	+ 1·0	9	43	1	0·06	- 0·46	18·7	+ 2·7	29	+ 4	Marchmont.
2. ENGLAND, N.E. a, North.	a Alnwick Castle ..	49	14th	27	20th	44·6	31·6	38·1	0·0	7	38	2	0·09	- 0·39	22·3	—	34	—	Cockle Park.
	a Shields	47	15th	28	14th, 20th	44·4	30·4	37·4	- 1·5	7	42	2	0·06	- 0·29	*12·3*	*+ 0·5*	*19*	*+ 1*	*Newcastle.*
	p Durham	47	15th	25	20th	43·4	29·9	36·7	- 0·8	4	44	1	0·01	- 0·33	20·4	+ 4·2	31	+ 6	Durham.
	p Rounton .. 𝔐	48	20th	25	14th	44·9	29·9	37·4	+ 0·1	8	44	1	0·02	- 0·36	*	*	*	*	* *
	p Scarborough.. M	50	15th	30	14th	44·4	34·0	39·2	0·0	7	30	1	0·02	- 0·42	27·1	—	41	—	Scarborough.
	p York	48	15th	26	14th	43·7	30·9	37·3	- 1·2	5	40	2	0·03	- 0·36	17·6	+ 3·6	27	+ 6	York.
b, South.	a Spurn Head	43	15th, 17th	30	14th	41·7	32·7	37·2	- 1·7	0	34	1	0·03	- 0·27	*	*	*	*	* *
	a Lincoln	50	18th	23	14th	44·3	27·1	35·7	- 2·7	6	54	1	0·01	- 0·35	27·5	—	41	—	Skegness.
	a Fulbeck	47	15th, 20th	24	14th	44·3	27·6	36·0	- 2·6	6	52	1	0·01	- 0·36	29·1	—	43	—	Rauceby.
																—		—	*Lowestoft.*
3. ENGLAND, E. a, North.	p Cromer	49	20th	29	14th	44·1	31·9	38·0	+ 0·7	6	37	3	0·09	—	34·1	—	51	—	Cromer.
	p Hillington .. 𝔐	48	20th	22	14th	44·5	27·8	36·2	- 1·8	7	52	1	0·03	- 0·39	23·9	+ 6·5	36	+10	Hillington.
	a Yarmouth	46	15th	29	15th	42·1	32·0	37·1	- 0·8	0	35	3	0·11	- 0·23	34·1	—	51	—	Yarmouth.
	a Norwich	46	15th, 20th	27	14, 18, 19th	43·7	29·3	36·5	- 1·5	5	46	3	0·16	—	*	*	*	*	* *
	p Geldeston	49	15th	26	18th	44·1	29·9	37·0	- 1·6	6	44	5	0·09	- 0·26	28·3	+10·1	42	+15	Geldeston.
b, South.	p Cambridge	48	15th	22	14th	45·3	27·9	36·6	- 2·1	9	52	1	0·01	- 0·33	31·7	+13·4	47	+20	Cambridge.
	a Felixstowe	*47*	*15th*	*27*	*14th*	*42·4*	*31·1*	*36·8*	*- 1·9*	*1*	*39*	*1*	*0·02*		*36·1*	—	*54*	—	*Felixstowe.*
	a Clacton-on-Sea ..	47	15th	27	14th, 15th	41·6	30·6	36·1	- 2·6	0	41	1	0·03	—	38·5	—	57	—	Clacton.
	a Rothamsted ..	48	15th	21	19th	44·9	26·6	35·8	- 2·2	8	56	1	0·03	- 0·41	31·6	+14·8	47	+22	Rothamsted.
	a Shoeburyness ..	*48*	*15th*	*27*	*14th*	*42·6*	*30·6*	*36·6*	*- 2·6*	*2*	*40*	*1*	*0·01*	*- 0·27*	*39·2*	—	*58*	—	*Southend.*
	p Tottenham	49	15th	26	20th	44·7	30·2	37·5	- 1·9	8	44	0	0·00	—	26·1	—	38	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	a Harrogate	46	15th	22	20th	43·7	29·5	36·6	- 0·7	5	45	1	0·04	- 0·49	32·0	—	49	—	Harrogate.
	a Bawtry	48	20th	23	19th, 20th	45·4	28·3	36·9	- 1·7	10	51	0	0·00	- 0·37	23·6	+ 9·6	35	+14	Worksop.
	p Buxton .. M	*44*	*19th, 20th*	*23*	*19th*	*40·9*	*28·2*	*34·6*	*- 1·2*	*0*	*52*	*1*	*0·07*	*- 0·88*	*29·6*	—	*44*	—	*Buxton.*
	a Nottingham ..	49	20th	23	20th	45·3	27·7	36·5	- 2·0	9	52	1	0·02	- 0·38	25·1	—	38	—	Nottingham.
	p Birmingham, Edgbsn	50	20th	28	19th	44·4	31·4	37·9	- 0·4	7	39	1	0·02	- 0·40	23·2	—	35	—	Birmingham.
	a Raunds .. 𝔐	48	20th	19	14th	45·3	24·7	35·0	- 3·4	9	63	0	0·00	—	*	*	*	*	* *
	a Oxford	49	20th	24	20th	45·6	27·7	36·7	- 2·7	10	53	1	0·02	- 0·38	35·4	+19·0	52	+28	Oxford.
b, West.	a Cheadle .. 𝔐	45	15th, 20th	26	19th	42·5	28·9	35·7	- 1·7	1	46	1	0·01	- 0·49	29·8	—	45	—	Sheffield.
	p Shrewsbury	50	20th	23	14th	45·5	28·5	37·0	- 2·5	10	50	0	0·00	—	*	*	*	*	* *
	a Hereford .. 𝔐	50	20th	20	14th	46·5	26·6	36·6	- 2·6	13	57	1	0·01	- 0·49	*	*	*	*	* *
	a Cirencester	49	20th	20	14th	44·9	24·1	34·5	- 3·5	8	65	1	0·01	- 0·49	37·7	+20·2	55	+30	Cirencester.
	a Bath	52	15th	21	14th	47·0	26·3	36·7	- 3·5	14	59	0	0·00	- 0·51	41·0	—	60	—	Bath.
															35·7	—	*53*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	49	15th, 20th	26	14th	45·3	30·6	38·0	- 1·5	9	43	0	0·00	- 0·38	33·5	+19·8	49	+29	Kew.
	a Marlborough ..	49	15th	18	14th	44·4	23·7	34·1	- 4·2	7	66	1	0·02	- 0·54	30·1	+15·5	44	+23	Marlborough.
	a Margate	46	20th	32	18th	42·6	33·1	37·9	- 1·8	2	32	2	0·06	- 0·30	32·2	+14·7	47	+22	Margate.
	a Wisley, Surrey ..	49	15th, 20th	25	14th	45·2	28·3	36·8	- 3·0	9	51	0	0·00	—	36·2	—	53	—	Wisley.
	a Swarraton .. 𝔐	49	20th	22	14th	44·8	26·2	35·5	- 3·0	8	57	0	0·00	- 0·55	46·5	—	68	—	Worthing.
	a Tunbridge Wells 𝔐	47	15th, 20th	25	14th	43·8	27·7	35·8	- 2·8	5	52	1	0·02	- 0·52	35·8	+19·4	53	+29	Tunbridge Wells.
	a Dungeness	48	15th	26	14, 15, 17th	43·7	28·6	36·2	- 3·4	5	48	2	0·03	- 0·35	33·9	—	50	—	Littlestone.
	p Hastings	49	15th	30	14th	42·9	33·9	38·4	- 1·5	3	29	1	0·01	- 0·49	*40·4*	*+20·5*	*59*	*+30*	*Hastings.*
	p Southampton ..	52	15th	26	14th	45·6	30·8	38·2	- 2·9	10	42	1	0·01	- 0·51	36·4	+18·0	54	+26	Southampton.
	a Ventnor	53	15th	29	15th	46·2	34·5	40·4	- 1·4	12	30	1	0·01	- 0·50	43·3	+23·6	64	+35	Ventnor.
															39·6	+21·2	58	+31	Eastbourne.
LONDON	*a Westminster* ..	*50*	*15th*	*26*	*14th, 15th*	*46·0*	*30·0*	*38·0*	*- 1·5*	*11*	*45*	*1*	*0·01*	*- 0·38*	*24·1*	*+15·9*	*35*	*+23*	*Westminster.*
	a Greenwich ..	*50*	*20th*	*25*	*14th*	*46·1*	*29·1*	*37·6*	*- 1·8*	*11*	*48*	*1*	*0·01*	*- 0·36*	*36·3*	*+22·2*	*53*	*+33*	*Greenwich.*
6. a, SCOTLAND. W. ..	p Laudale	49	14th, 20th	34	14th, 16th	45·8	38·1	42·0	+ 2·0	11	11	1	0·32	- 1·32	*	*	*	*	* *
	a Poltalloch .. 𝔖	47	14th	30	14th	44·7	34·1	39·4	+ 0·6	8	30	1	0·07	- 0·82	*	*	*	*	* *
	p Glasgow	48	14th, 15th	33	14th, 16th	45·3	36·1	40·7	+ 2·1	9	23	2	0·04	- 0·63	18·7	+ 8·2	29	+13	Glasgow.
	p Rothesay .. 𝔖	49	14, 15, 16th	33	14th	46·7	36·1	41·4	+ 1·8	13	24	2	0·12	- 0·76	*	*	*	*	* *
	a Kilmarnock	47	14, 15, 20th	27	16th	45·5	32·4	39·0	+ 0·2	10	36	0	0·00	—	*21·7*	—	*33*	—	*Kilmarnock.*
	a Colmonell .. 𝔖	48	15th, 20th	23	14th	44·9	34·0	39·5	+ 1·1	8	30	2	0·05	- 0·84	*	*	*	*	* *
	p Dumfries .. 𝔖	50	16th, 20th	26	19th	45·9	31·6	38·8	0·0	11	39	1	0·01	- 0·75	*	*	*	*	* *
	p Cally, Gatehouse 𝔖	52	16th	28	14th	45·3	33·0	39·2	+ 0·7	9	34	3	0·24	- 0·76	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	49	14th	33	14th, 16th	45·3	36·8	41·1	+ 0·8	9	21	2	0·13	- 0·67	22·4	+ 5·4	34	+ 8	Douglas.
															30·9	—	46	—	Hoylake.
7. a, ENGLAND, N.W...	p Aspatria	49	20th	28	14th	45·1	33·0	39·1	+ 1·4	9	34	1	0·09	- 0·48	27·0	—	41	—	Aspatria.
	p Newton Rigg ..	47	19th	25	14th	43·1	30·0	36·6	0·0	3	43	1	0·03	- 0·70	28·0	+13·1	42	+20	Newton Rigg.
	p Stonyhurst	46	20th	28	16th	42·6	31·2	36·9	- 1·3	2	38	2	0·02	- 0·78	26·7	+12·5	41	+19	Stonyhurst.
	p Blackpool .. M	47	20th	25	17th	43·9	31·8	37·9	- 1·1	5	37	1	0·01	- 0·54	32·4	+16·9	49	+26	Blackpool.
	p M'nch'ster, Prestwich	49	20th	28	16th, 20th	44·0	30·1	37·1	- 1·3	6	43	1	0·01	- 0·55	*20·1*	*+10·3*	*30*	*+15*	*Prestwich.*
	a Liverpool (Bidston)	46	20th	30	17, 19, 20th	43·7	32·1	37·9	- 1·4	5	36	1	0·01	- 0·42	*36·1*	—	*54*	—	*Liverpool.*
	a Hawarden Bridge ..	47	15th, 20th	29	17, 19, 20th	45·1	31·0	38·1	- 2·1	9	41	0	0·00	- 0·36	*33·3*	*+17·1*	*51*	*+26*	*Southport.*
															34·5	—	*52*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	50	20th	30	14th	45·9	34·8	40·4	- 1·0	11	28	1	0·07	- 0·43	30·3	+13·2	45	+20	Llandudno.
	a Holyhead	52	20th	33	19th	46·7	36·4	41·6	+ 0·2	13	23	1	0·02	- 0·56	33·2	—	50	—	Aberdovey.
	p Bettws-y-Coed ..	55	20th	22	14th	46·3	29·6	38·0	- 2·5	12	47	1	0·01	—	27·1	—	40	—	Bettws-y-Coed.
															26·5	—	40	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	52	20th	16	14th	45·2	23·3	34·3	- 3·7	9	68	0	0·00	—	24·5	—	37	—	Llangammarch Wells.
	a Pembroke	51	15th	26	14th	46·4	35·9	41·2	- 0·8	12	25	1	0·01	- 0·63	34·3	+15·8	50	+23	Pembroke.
	a Cardiff	52	15th	25	14th	46·3	31·6	39·0	- 0·8	12	40	2	0·02	- 0·71	*38·3*	—	*56*	—	*Cardiff.*
															31·0	*+11·6*	*46*	*+17*	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	50	15th	25	14th	44·9	30·1	37·5	- 2·6	8	44	1	0·02	- 0·55	*36·2*	—	*53*	—	*Clifton.*
	a Shaftesbury .. 𝔐	49	15th	27	14th	43·5	31·1	37·3	- 1·1	4	39	0	0·00	- 0·57	*	*	*	*	* *
	a Arlington	50	20th	24	14th	44·9	31·9	38·4	- 0·9	8	37	2	0·02	- 0·91	38·5	+19·1	57	+28	Newquay.
	a Cullompton .. 𝔐	52	20th	20	14th	47·8	28·8	38·3	- 2·1	16	50	1	0·02	- 0·65	31·8	+14·9	47	+22	Cullompton.
	a Portland Bill ..	50	15th	31	14th	45·3	36·4	40·9	- 0·7	9	22	1	0·02	—	*45·4*	—	*67*	—	*Weymouth.*
	p Plymouth	51	20th	27	14th	46·8	34·8	40·8	- 1·3	13	29	0	0·00	- 0·66	40·1	+21·3	58	+31	Plymouth.
	p Falmouth	49	15th, 20th	31	14th	45·8	38·0	41·9	- 1·2	11	17	0	0·00	- 0·87	38·4	+18·0	56	+26	Falmouth.
															39·3	*+20·9*	*59*	*+31*	*Torquay.*
9. IRELAND, N. a, West.	a Malin Head	48	20th	29	14th	46·1	38·3	42·2	+ 1·4	17	10	2	0·07	- 0·47	*	*	*	*	* *
	a Blacksod Point ..	51	20th	34	14th	49·1	41·0	45·1	+ 2·5	26	3	3	0·12	- 0·77	*	*	*	*	* *
	p Markree Castle ..	52	20th	23	14th	47·7	36·3	42·0	+ 2·0	16	16	2	0·12	- 0·64	2·8	-12·4	4	-19	Markree Castle.
b, East.	p Armagh	49	20th	28	14th	46·2	34·9	40·6	+ 0·8	12	28	1	0·01	- 0·51	19·1	+ 4·0	29	+ 6	Armagh.
	a Donaghadee	49	15th	28	14th	46·6	35·1	40·9	+ 0·3	13	28	2	0·05	- 0·51	*	*	*	*	* *
10. IRELAND, S. a, East.	p Dublin, City.. ..	50	20th	28	14th	46·2	37·2	41·7	- 0·5	12	20	1	0·01	- 0·49	31·7	+13·9	47	+21	Phœnix Park.
	a Kilkenny	51	20th	22	14th	47·6	32·0	39·8	- 1·1	16	39	1	0·01	- 0·63	*	*	*	*	* *
	a Waterford	52	20th	25	14th	48·6	35·1	41·9	+ 0·4	18	29	1	0·02	- 0·79	*	*	*	*	* *
b, West.	a Birr Castle	52	20th	19	14th	47·9	33·1	40·5	+ 0·2	17	35	1	0·02	- 0·50	10·0	- 6·1	15	- 9	Birr Castle.
	a Foynes	52	20th	25	14th	48·7	37·0	42·9	+ 0·4	27	14	3	0·06	- 0·69	*	*	*	*	* *
	a Cahir .. .. 𝔐	50	20th	21	14th	47·1	35·5	41·3	- 0·1	14	28	3	0·07	—	*	*	*	*	* *
	a Killarney	53	20th	22	14th	48·6	37·2	42·9	+ 0·3	26	13	3	0·05	- 1·19	*	*	*	*	* *
	a Valencia	53	20th	25	14th	49·6	36·3	43·0	- 1·3	31	16	3	0·30	- 0·93	16·5	- 1·1	25	- 2	Valencia.
	a Roche's Point ..	49	20th	29	14th	47·1	39·7	43·4	0·0	19	6	3	0·07	- 0·84	8·8	—	13	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	52	20th	35	14th, 15th	48·3	39·9	44·1	- 1·1	24	6	0	0·00	- 0·65	28·4	+ 7·4	41	+11	Scilly.
	a Jersey, St. Aubins ..	50	15th, 20th	33	19th	46·6	34·9	40·8	- 1·9	13	28	0	0·00	- 0·57	43·0	+20·4	62	+30	St. Heliers.
	a Guernsey	53	20th	36	19th	47·8	38·0	42·9	- 0·5	23	11	1	0·02	- 0·63	41·6	+20·3	60	+29	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 39·4 hrs. (+20·6 hrs.), 58 % (+30 %); Bournemouth, 45·0 hrs., 66 %; Bognor, 44·2 hrs., 65 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	— —				
	— —				
	— —				
1.	Aberdeen	—	—	—	38·8
	Crathes	6	21	35·6	37·7
	Balmoral	6	25	—	—
	West Linton	7	19	—	—
	Marchmont	6	24	35·1	—
2.	Cockle Park	7	16	34·9	38·1
	Durham	6	23	—	—
	York	—	—	36·8	40·0
	Hull	7	21	37·0	41·0
	Lincoln	—	—	34·7	38·9
	Rauceby	6	21	36·5	41·5
3.	Norwich	7	21	—	—
	Yarmouth	—	—	35·	41·0
	Lowestoft				
	Cambridge	7	17	35·9	40·9
	Clacton-on-Sea	7	23	37·6	42·3
	Southend	7	19	36·6	—
	Tottenham	6	19	—	41·9

	STATION.	Grass Min. No. of Obs. of 30° or less	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	6	17	56·4	38·6
	Huddersfield	6	19	35·3	39·2
	Buxton	7	15	34·5	40·3
	Sheffield	6	19	35·4	39·9
	Nottingham	6	18	34·5	38·0
	Birmingham	7	14	37·8	43·0
	Oxford	7	15	—	—
	Hereford	7	12	—	—
	Cirencester	7	19	—	—
5.	Margate	4	27	36·6	40·1
	Greenwich	7	11	—	—
	Westminster	7	20	—	—
	Kew	7	13	35·5	41·8
	Canterbury	6	16	37·8	42·9
	Tunbridge Wells	7	15	34·9	—
	Wisley	7	18	35·4	40·8
	Worthing	7	22	36·5	42·3
	Portsmouth	6	19	37·2	42·8
6.	Glasgow	5	27	—	—
	Rothesay	—	—	—	42·5
	Colmonel	1	21	—	—
	Dumfries	5	20	—	—
	Douglas	3	26	—	—

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
7.	Aspatria	6	21	—	—
	Newton Rigg	7	16	35·4	38·7
	Burnley	6	19	34·5	39·5
	Southport	6	18	35·3	39·2
	Manchester City	4	27	35·4	40·9
	Bettws-y-Coed	5	20	37·4	42·6
8.	Llangammarch Wells	7	3	37·4	43·2
	Cardiff	7	18	36·6	41·9
	Clifton	6	21	—	—
	Bath	—	—	37·9	43·8
	Plymouth	6	16	37·8	—
9.	Armagh	3	20	39·2	43·2
	Markree	1	14	—	—
10.	Dublin, Trin. Coll.	4	21	40·3	43·8
11.	Guernsey, Brooklyn	0	31	40·5	44·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	42	42·0
	Kirkwall	43	40	41·3
	Wick	45	44	44·7
SCOTLAND, E.	Cromarty	41	40	40·5
	Pennan Bay	42	39	40·8
	Aberdeen, Cove Bay	41	39	39·6
ENGLAND, N.E.	Burnmouth, Berwick	41	40	40·4
	Scarborough	43	37	39·5
ENGLAND, E.	Shipwash Lightship	40	37	38·9
	Margate	38	37	37·4
ENGLAND, S.E.	Eastbourne‡	39	38	38·6

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	45	43	44·2
	Ballantrae	43	42	42·7
ENGLAND, N.W.	Port Erin	45	43	43·8
	Newquay	46	46	46·0
ENGLAND, S.W.	Plymouth‡	48	47	47·1
	Salcombe	46	44	45·4
IRELAND, N.W.	Sheephaven	45	44	44·7
	Teelin	47	43	44·9
IRELAND, S.W.	Cleggan	47	45	46·2
	Seafield	48	43	46·3
IRELAND, E.				

‡ Only one observation each day.

Corrections and Additions for January, 1909.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Daily Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 1, p. 10	2. England N.E.	—	—	—	—	—	—	—	—	—	—	—	0·25	−0·17	—	—	—	—
No. 4, p. 34	11. English Channel.	—	—	—	—	—	—	—	—	—	—	—	0·02	−0·63	—	—	—	—
Station Values.— Additions.																		
No. 1, p. 11	Rhyl	—	—	—	—	—	—	—	—	—	—	—	—	—	8·6	—	17	—
No. 1, p. 11	Tenby	—	—	—	—	—	—	—	—	—	—	—	—	—	6·2	−5·5	12	−10
Station Values.— Corrections.																		
No. 1, p. 11	Balmoral	50	3rd	—	—	46·3	—	40·5	+6·0	12	31	—	—	—	—	—	—	—
No. 1, p. 11	Spurn Head	—	—	—	—	—	—	—	—	—	—	—	0·24	−0·11	—	—	—	—
No. 1, p. 11	Plymouth	—	—	—	—	—	—	—	—	—	—	—	0·35	−0·50	—	—	—	—
No. 2, p. 19	York	—	—	—	—	—	36·2	40·6	+2·6	—	24	—	—	—	—	—	—	—
No. 2, p. 19	Yarmouth	—	11th	—	—	43·6	—	39·3	+1·5	7	28	—	—	—	—	—	—	—
No. 2, p. 19	Cheadle	—	—	—	—	—	32·2	37·4	+0·7	—	36	—	—	—	—	—	—	—
No. 2, p. 19	Holyhead	—	—	—	—	—	39·0	43·0	+0·9	20	8	—	—	—	—	—	—	—
No. 3, p. 27	Hillington	—	—	—	—	—	31·7	37·0	+0·3	—	35	—	—	—	—	—	—	—
No. 3, p. 27	Cheadle	—	-	—	—	—	30·8	36·2	−0·4	—	41	—	—	—	—	—	—	—
No. 3, p. 27	Shrewsbury	—	—	—	—	—	31·3	38·0	−0·2	—	41	—	—	—	—	—	—	—
No. 4, p. 35	Laudale	—	—	34	24, 30	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 4, p. 35	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	12·1	—	20	—
No. 4, p. 35	Jersey, St. Aubins	—	—	—	—	—	—	—	—	—	—	—	0·02	−0·64	—	—	—	—

APPARATUS USED IN THE KITE ASCENTS ON p. 56.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12
No. of Kites	2	1	1	2	1	1	1	1	1	2	2	1
Area of Surface (sq. metres)	13·5	7·1	7	14·6	7	7·4	7·1	4	7·4	14·2	14·6	7·1
Length of Wire (metres)	1,300	950	1,600	3,100	800	?	1,590	1,000	?	2,470	2,700	460

CORRECTIONS AND ADDITIONAL NOTES ON ASCENTS REPORTED ON p. 56.

10.—Feb. 11th. A piece of ice taken from the wire measured 1·5 in. in diameter, even after it had partially melted. Nearly 100 metres of wire (nearest the Kite) were thus coated. An amount of ice, the equivalent of 5 Kilogrammes, was taken from the Kite itself.

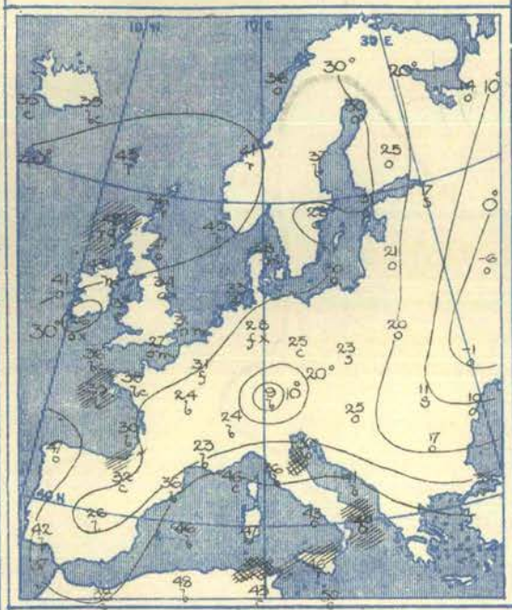
12.—Feb. 13th. Remarks. "Ground wind remarkably steady," referred to ascent No. 11. Feb. 12.

APPARATUS USED IN THE KITE ASCENTS ON p. 64.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12	13
No. of Kites	2	1	1	—	—	2	2	1	2	1	2	1	1
Area of Surface (sq. metres)	13·3	7·1	4	—	—	14·2	13·3	7·1	14·2	7	14·2	7	7
Capacity of Balloon (cub. metres)	—	—	—	2·55	2·0	—	—	—	—	—	—	—	—
Length of Wire (metres)	800	3,050	1,700	—	—	2,500	2,000	2,150	3,500	2,400	2,600	1,500	1,700

Sunday, 14th February, 1909.

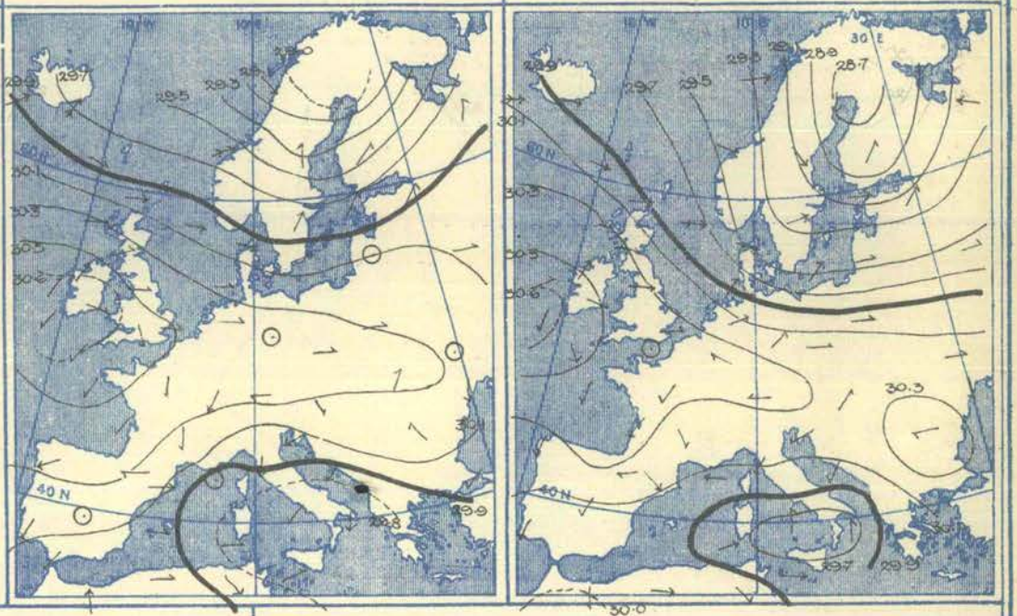
Temperature and Weather. 7 a.m.



Weather in morning fair or fine and bright over the greater part of England, Ireland, France, and the Spanish Peninsula; generally overcast elsewhere, with rain in the Hebrides and Shetland, and also in the west of Norway and at some stations in the extreme south of our area, and snow in Poland and at St. Petersburg. A little rain in most parts of these Islands later, and some rain or snow in places over a large portion of the Continent.

Temperature fallen in most parts of England and at some stations in the far south, risen generally, quickly in Scotland. Morning readings 22° at Bath, and below 30° over the inland counties of England and Ireland as a whole; below 20° over the east of our area, and as low as –12° at Kharkoff. Nearly 50° in the Hebrides and at a few Mediterranean stations, but only 40° at Brindisi and 37° at San Fernando and Nemours. Rising subsequently to above 50° in the east of Scotland, and to about 45° at some English stations, to some degrees above 50° at various places in the extreme south of our area, and to 66° at Tunis. Maxima low in Italy and the south of France.

Barometer and Wind. 7 a.m. and 6 p.m.

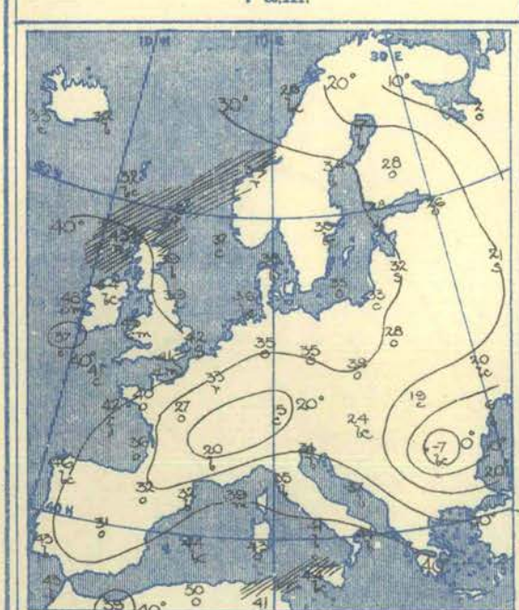


Wind in morning mainly Westerly to South-Westerly over all the more northern districts; strong to a gale over Norway and Iceland, but moderate to fresh generally. A complete cyclonic circulation prevailing over Italy and the surrounding regions; fresh to high on the shores of the Adriatic. No great change in direction later; increasing to a gale from the Westward or South-Westward on the coast of North Germany.

Barometer in morning above 30·6 ins. in an anticyclone over Ireland, and relatively high in a ridge extending thence to southern Russia. Below 29·8 ins. in a depression over Italy, and below 29·0 ins. in Lapland. Pressure increasing during day in Iceland, but decreasing in most other regions. Fall of barometer very brisk in the north-east of our area, and reading at 6 p.m. as low as 28·67 ins. at Uleaborg. Gradient increasing over Scandinavia, the Baltic, and Russia.

Monday, 15th February, 1909.

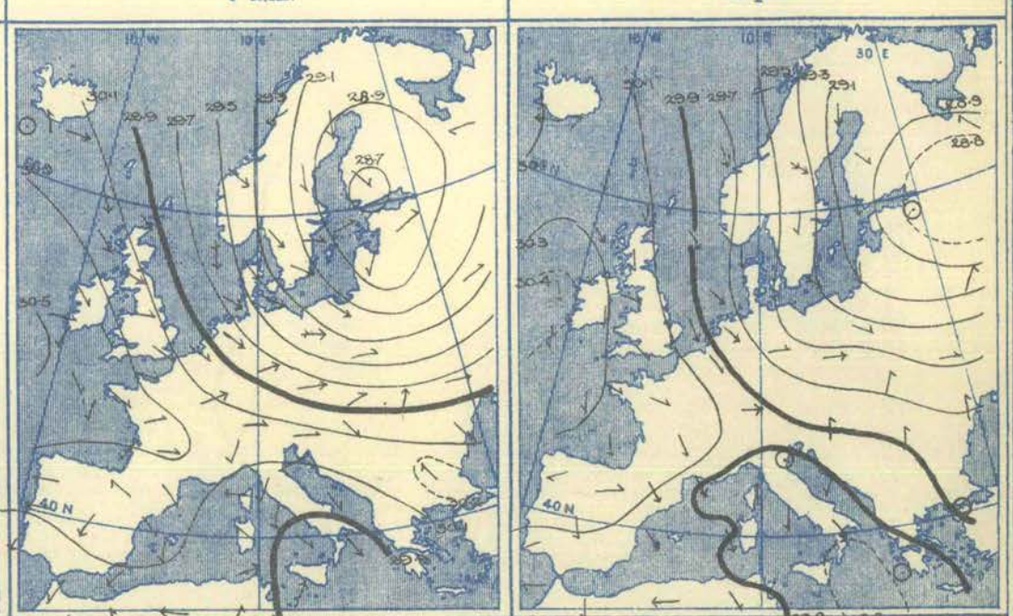
Temperature and Weather. 7 a.m.



Weather in morning fine at most places in the south of our area, and in some localities elsewhere, but cloudy or overcast generally, with rain in the south-east of England and the nearer regions of the Continent, as well as at Castlebay and Christiansund, and snow at Wick and in some parts of Germany and Russia. Some showers of rain, sleet, or snow in many parts of these Islands during day, and a little precipitation in various localities on the Continent.

Temperature risen in Ireland, England, the central countries and most of Russia, fallen in most other districts. Readings in morning about 45° at some of our own western stations and at a few places in the extreme south of our area. Below 32° over the major portion of the Continent, and as low as –7° at Hermanstadt. Maxima during day low generally, but about 50° in some parts of England and Ireland and above that figure in the far south of our area, but not much above 32° in any part of central Europe, only 35° at Constantinople, and 41° at Marseilles and Cette.

Barometer and Wind. 7 a.m. and 6 p.m.

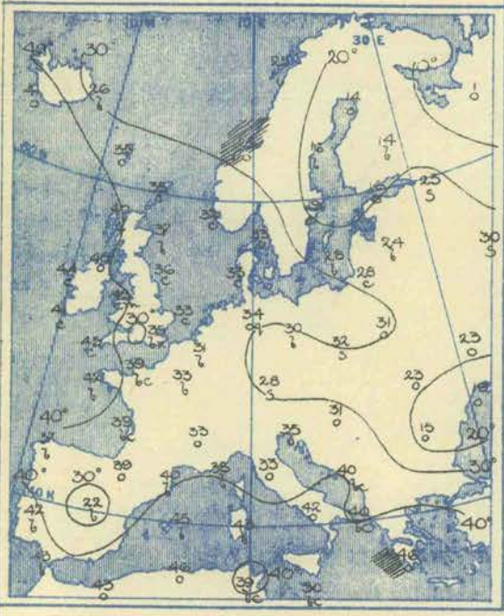


Wind in morning showing a very extensive cyclonic circulation occupying all the north and north-east of Europe, and an anticyclonic movement over most of these Islands and France. North-Westerly to Westerly current strong to a gale over Norway, Denmark, and the Baltic. A light to fresh breeze from various directions prevailing over the Mediterranean. A fresh Easterly breeze setting in in the west of Iceland later.

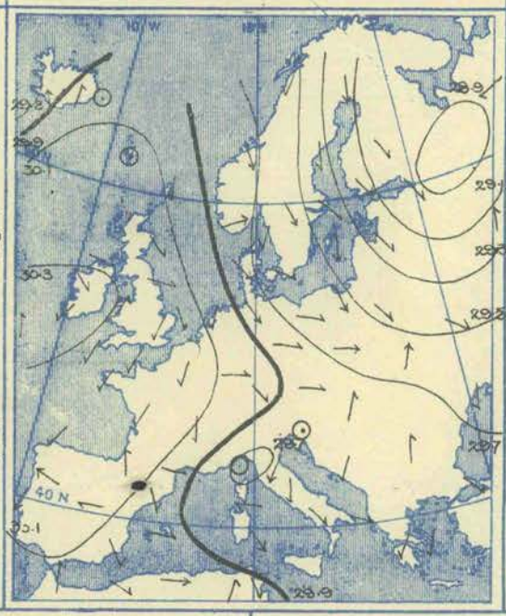
Barometer in morning ranging from 30·5 ins. on the south-west coast of Ireland to below 29·9 ins. in the south of Italy, and to below 28·7 ins. in a very large depression having its centre over Finland. Not much change in the general distribution later, but barometer falling within the anticyclonic region and a fresh fall commencing in Iceland.

Tuesday, 16th February, 1909.

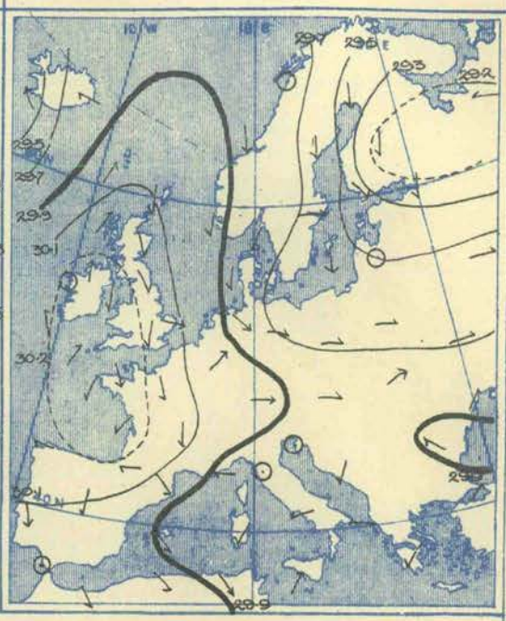
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast in places, but mostly fair or fine in the western and southern countries. Dull or very cloudy over the greater portion of Russia, with snow in several localities. Snow falling at Breslau also. Considerable amounts of rain experienced later in various parts of the south and south-east of our area, and a little snow in the central countries.

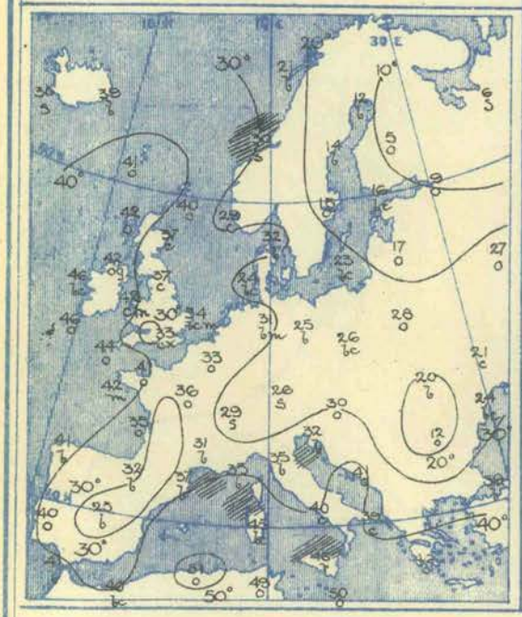
Temperature fallen over these Islands and the Scandinavian region, risen over France and south Germany. Morning readings about 32° in several English localities, and much below it over the eastern and northern countries of the Continent. Above 40° on our west and south-west coasts and on many shores of the Mediterranean, and as high as 50° at Malta. Rising subsequently to about 40° in the east of England, and also over a large part of the Continent, but touching or slightly exceeding 50° at some places in the extreme south, and reaching 66° at Tunis. Slight frost at night over Great Britain.

Wind in morning cyclonic in the east and south of our area, anticyclonic in the west. North-Westerly current fresh to strong over Scandinavia, the Baltic, and Finland. Increasing in force on some shores of the Mediterranean by evening, and becoming strong from South-East in western Iceland.

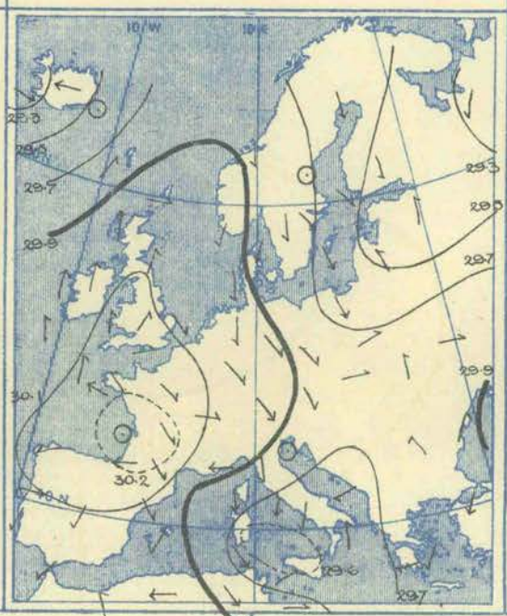
Barometer in morning 30·2 ins. to above 30·3 ins. over the United Kingdom and the adjacent portion of the ocean. Below 29·7 ins. in a depression over the Gulf of Genoa, and below 28·9 ins. in a large system over the north of Russia. Below 29·8 ins. off the west of Iceland. Anticyclone giving way somewhat later and barometer falling decidedly in Iceland. Southern depression apparently travelling towards Greece and increasing in depth, and the northern system remaining stationary but becoming less deep.

Wednesday, 17th February, 1909.

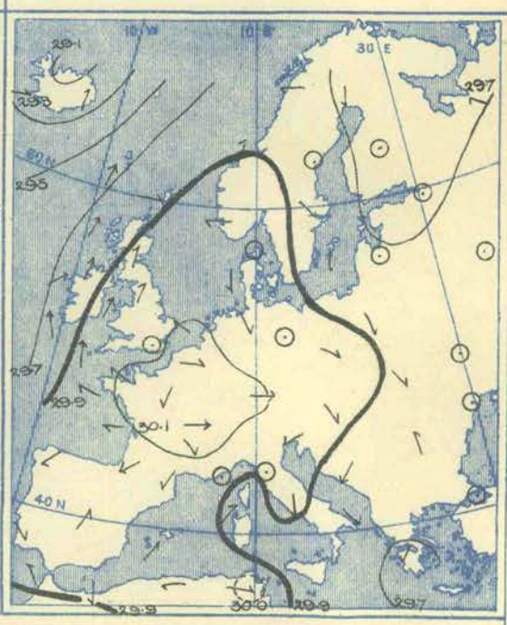
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright generally, but sky overcast in some places, especially in Russia, and passing showers falling at Castlebay and Pembroke, rain at Palermo, and snow at Christiansund, Helsingfors, and Archangel. Some snow later in the central countries, and some rain in the south-east of our area and at Brindisi, but weather continuing dry generally.

Temperature fallen in most regions. Morning readings below 10° in Finland, the north of Russia, and also at Kharkoff, below 20° in Sweden and Transylvania, and below 32° in central Europe and at some places in central England. Maxima during day below 45° in most parts of Great Britain, and below 50° over nearly the whole of France and Italy, but about 60° on the south coast of Spain, the north coast of Africa, and on the coast of Portugal. Frost continuing in various parts of central Europe.

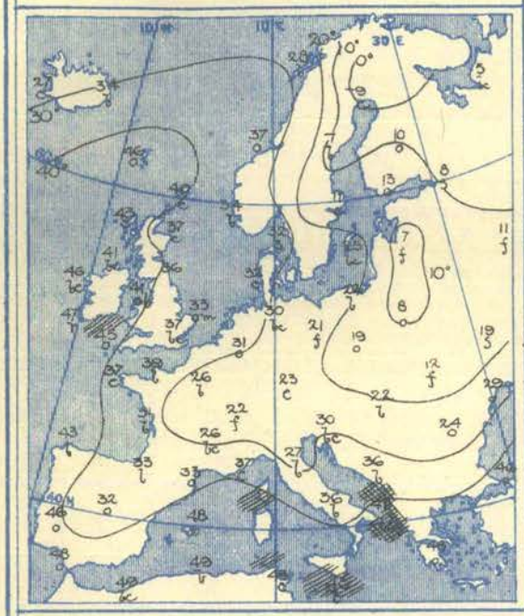
Wind continuing anticyclonic over the western countries and cyclonic in the east and south. North-Westerly current strong to high on some shores of the Mediterranean, and a strong Northerly breeze prevailing over the Baltic, but little force elsewhere. A strong breeze from between East and South-East reported from most stations in Iceland. Little change later as a whole, but wind shifting to the Westward in Iceland and becoming rather more Southerly over England.

Barometer in morning above 30·2 ins. in an anticyclone having its core over France and an extension over the United Kingdom. Below 29·6 ins. in a depression between southern Italy and Sardinia, and below 29·3 ins. both in the extreme north-east and north-west of our area. High pressure system moving eastwards later in day and giving way slowly in intensity. Barometer falling somewhat decidedly on the west coasts of these Islands and also in the west and south-west of France. A cyclonic centre moving north-eastwards beyond Iceland.

Thursday, 18th February, 1909.

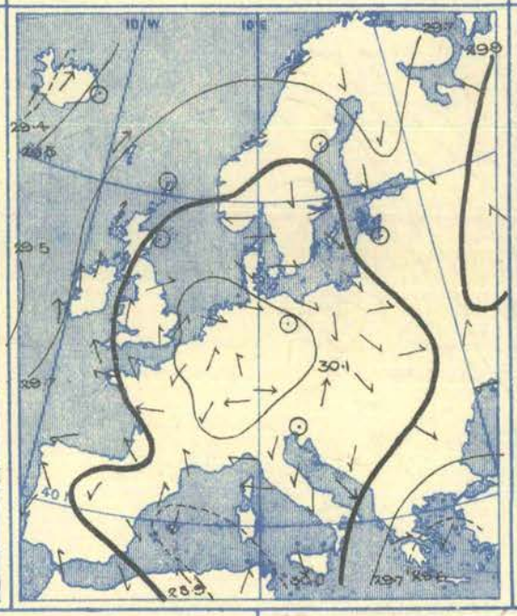
Temperature and Weather.

7 a.m.

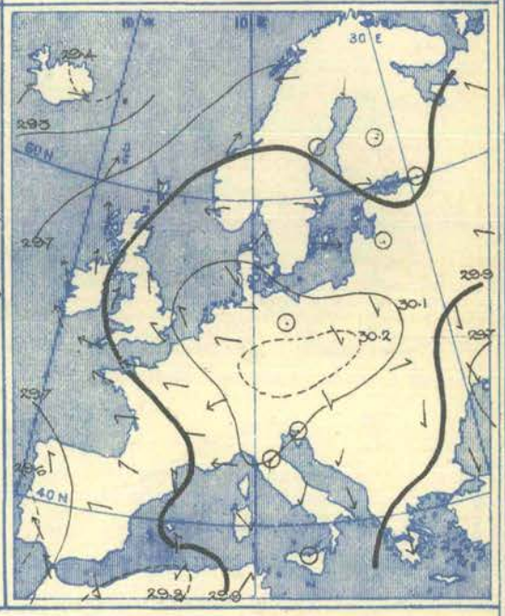


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very cloudy or quite overcast over the major portion of this country, Russia, and at some places in the south of our area. Rain falling at Constantinople and Patras, and showers at some of our own western stations; snow reported over some parts of Russia and at Memel. Some snow later over most of Russia, and very slight falls in some parts of central Europe, but weather continuing very dry generally, and very bright over nearly the whole of England.

Temperature fallen generally, risen in Norway and the south-east of Europe. Readings in morning below zero in the north of Sweden, and much below 32° over nearly the whole of the Continent. Above 45° in the south of Ireland and at various stations in the far south of our area. Maxima during day about 50° at some stations in Ireland and Scotland, but lower over England, as well as over the greater part of France and Italy, but thermometer rising to about 60° in the south of Spain, and touching 70° at Algiers. Frost continuing all day over the central countries.

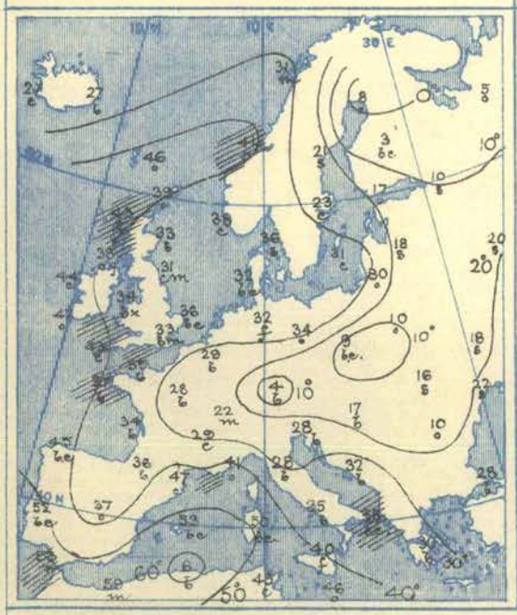
Wind in morning showing an anticyclonic circulation over these Islands and most of the European mainland. Southerly current strong on our extreme south-west coast. A strong to high wind from the North-Westward prevailing on some shores of the Mediterranean. Increasing to a high wind or gale from the North-Westward later at Brindisi and in Greece.

Barometer in morning above 30·1 ins. in an anticyclone having its maximum over Germany, the Low Countries, and the east of France. Below 29·6 ins. in Greece, and less than 29·4 ins. over the west of Iceland. Little modification occurring later in day in the general distribution of pressure, but anticyclone increasing in intensity and expanding in nearly all directions.

Friday, 19th February, 1909.

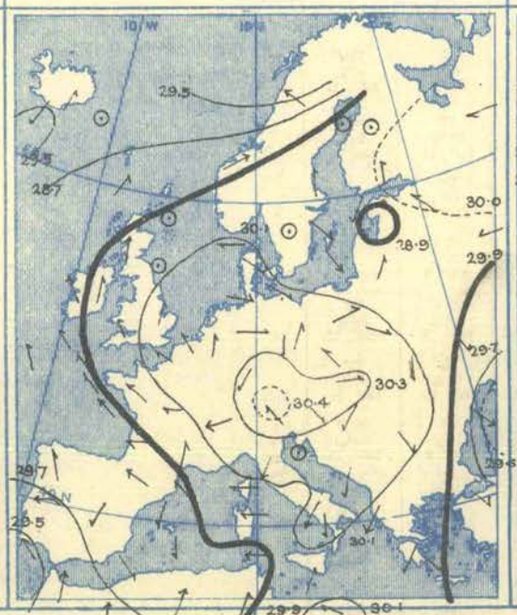
Temperature and Weather.

7 a.m.

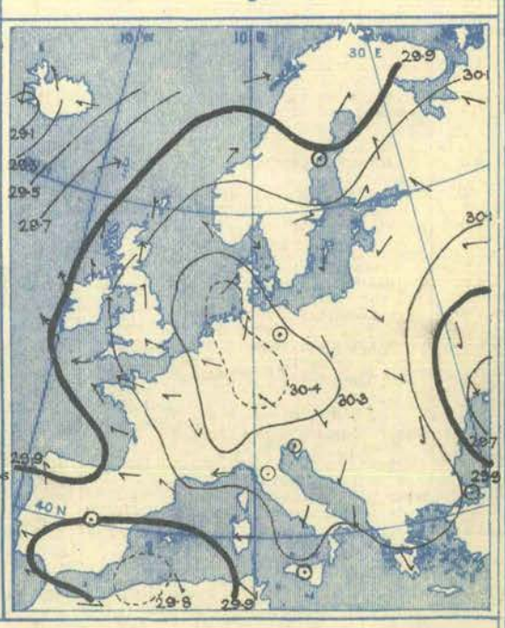


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine over the greater portion of our area, but overcast in some localities, and snow falling over a considerable part of Russia, as well as at Hernösand and Swinemünde. Some rain later in the extreme south of France, and considerable quantities of snow in central Finland and the south of Russia. Weather extremely bright in nearly all parts of Great Britain.

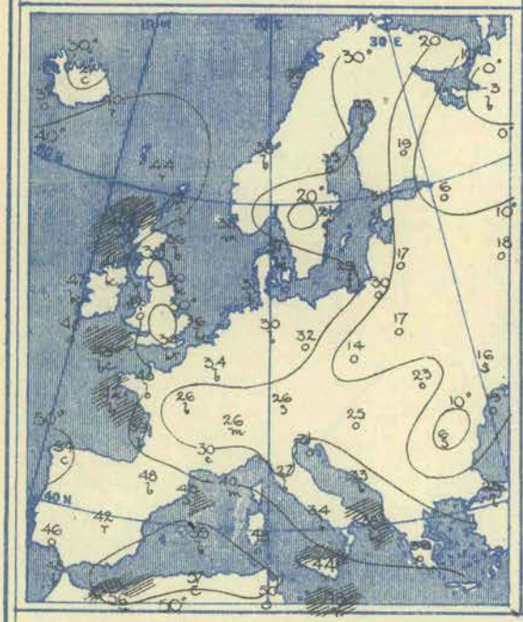
Temperature fallen in most regions, risen in Scandinavia. Readings in morning below 6° in the north of Russia, and as low as −8° at Haparanda. Below 10° in some parts of Poland, and only 4° at Munich. Above 45° in the south-west of Ireland, above 50° at some stations in Portugal and on the southern shores of the Mediterranean, and as high as 62° at Algiers. Thermometer rising during day to above 45° in several parts of this country and to 50° in the west of France, but only touching 39° at Pesaro, 41° at Athens, and 43° at Brindisi, and remaining below 32° over a large portion of central Europe. Maxima above 60° in southern Spain and in Algeria.

Wind in morning showing a very extensive anticyclonic circulation over the major portion of our area. Mainly cyclonic over Russia, Spain, and in Iceland. A fresh or strong breeze prevailing in a few isolated places, but very little force generally. No great change later; increasing in force over the Black Sea region.

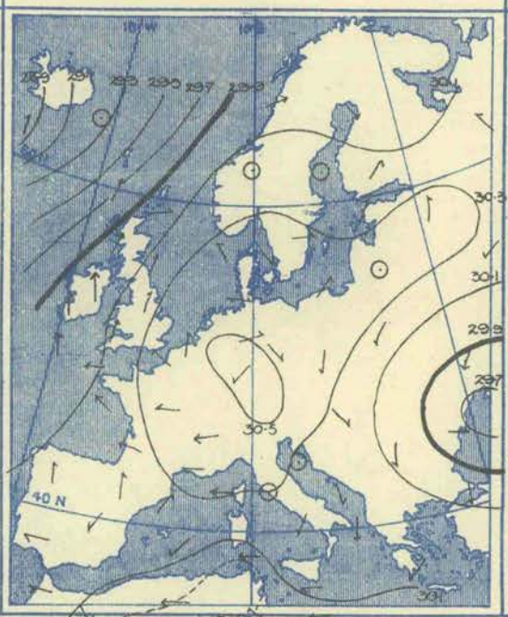
Barometer in morning ranging from above 30·4 ins. in a very large high pressure system having its maximum over Bavaria to below 29·8 ins. over the Gulf of Finland, below 29·6 ins. over the Black Sea, and also in the extreme south-west of our area, and to below 29·5 ins. in the south-west of Iceland. Anticyclone undergoing little modification. Barometer falling to about 29·1 ins. in the west of Iceland, but rising briskly over the Gulf of Finland and slowly over Spain. A steady increase of pressure taking place throughout these Islands.

Saturday, 20th February, 1909.

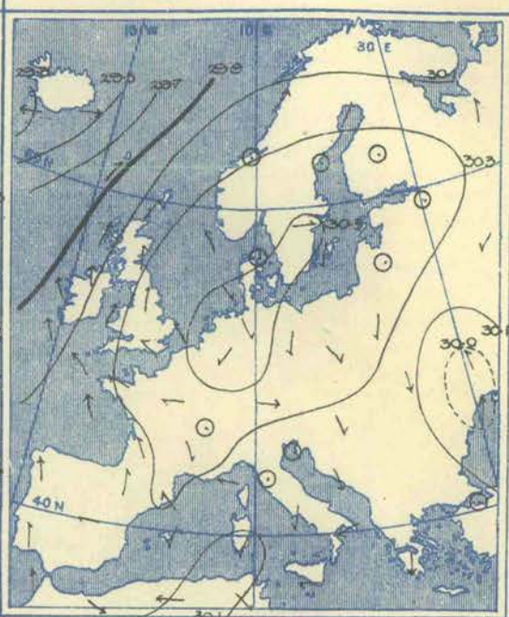
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright at nearly all places in these Islands and their neighbourhood, as well as in the south of Europe, but rainy at Madrid and Palermo. Overcast in Russia and Transylvania, with snow at Kieff and Hermanstadt, and rainy or dull over the Icelandic region. No rain during the subsequent twenty-four hours in these Islands, and sky continuing clear in England, Scotland, and Wales. Scarcely any precipitation in any part of the Continent, but 0·5 in. at Sfax.

Temperature in morning some degrees below the freezing point in central England and over the greater portion of the Continent; as low as 6° at Hermanstadt and St. Petersburg, and −3° at Archangel. Above 50° in the north of Spain and at some stations in the extreme south of our area. Maxima during day about 50° in various parts of the United Kingdom and France, but below it at nearly all the Italian stations, as well as at Athens and Patras. Thermometer touching 60° at some places in the extreme south. Frost continuing all day in some localities in central Europe.

Wind in morning remaining anticyclonic over the major part of our area, and cyclonic over most of Russia and in the far north-west and south. Southerly current blowing a strong breeze on parts of our west coast and in the Minch, and also at Thorshavn, and strong breezes prevailing from various quarters on the coast of Algeria. No change of importance during day.

Barometer in morning ranging from above 30·5 ins. in a very large anticyclone having its centre over western Germany and Holland to below 29·7 ins. in the south of Russia, and to below 29·0 in the west of Iceland. Very little alteration taking place during day in the general distribution of pressure, but barometer rising both in Iceland and the south of Russia, and central portion of anticyclone extending northwards to Sweden. Barometer rising slowly over the United Kingdom.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Feb. 14th, 10.50 a.m. to 12.25 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	72° 100% 350°, 4	72° 100% 350°, 8	72° 75% 270°, 10					72 ° 70% 270°, 10	600	Thick haze to clear sky. Light scud at 450 m. Wind changed rapidly above scud.
2	Feb. 15th, 10.8 a.m. to 1.5 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	76° 95% 330°, 5	75·5° 95% 328°, 6	75° 95% 325°, 7	71·5° 97% 340°, 11	71° 50% 330°, 18	70·5° 25% 325°, 19		69·5° 25% 325°, 20	2,100	Rapid changes of temp. and very dry above 1,250 m. Wind variable. Clouds at 750 m.
3	Feb. 15th, 10.40 a.m. to 11.33 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	79·5° 95% 310°, 6	79° 95% 340°, 11	77° 100% 340°, 14	77° 20 % 340, 18				77° 20% ? 23	1,300	Clouds at 500 m. Calm morning, strong wind for about 2 hours, 9 a.m. to 11 a.m. The upper wind was very strong during the first part of the winding in. Lowest temp., 75° at 800 m.
4	Feb. 16th, 1.23 p.m. to 1.53 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	74·5° 78% 305°, 3	73·5° 72% 290°, 4	73° 73% 285°, 4					72·5 74% 292°, 5	550	Captive balloon used. Light variable wind.
5	Feb. 17th, 5.28 p.m. to 5.55 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind .. .	74° 80% 170°, 1	73° 80% 215°, 3	72·5° 80% 220°, 3					72° 80% 230°, 3	640	Fine and bright. Captive balloon used. Clouds not reached.
6	Feb. 18th, 8.41 a.m. to 11.27 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	75° 75% 165°, 4	74° 73% 180°, 9	73·5° 73% 185°, 11	70° 80% 175°, 11				69° 80% 175°, 11	1,100	Layer of temp. 71·5°, and humidity 65%, met during ascent, at 950 m., moving in direction 172°, with velocity 10 m.p.s.
7	Feb. 18th, 10.0 a.m. to 12.40 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	77·5° 75% 130°, 6	76·5° 75% 150°, 12	73° 80% 140°, 14	71° 80% 130°, 14				71° 80% 130°, 14	1,100	Clear sky overhead. Decreasing cumulus on N. horizon.
8	Feb. 18th, 3.48 p.m. to 5.40 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	75° 77% 170°, 3	74·5° 77% 175°, 8	74° 77% 175°, 9	69·5° 84% 190°, 11	65·5° 85% 195°, 11			65° 85% 195°, 10	1,580	Fair, dull, overcast. Lower thin clouds at 1,200 m. Layer of temp. 67·5°, and humidity 65%, encountered on ascent at 1,500 m. and persisting about 6 minutes.
9	Feb. 19th, 8.12 a.m. to 10.50 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	74° 67% 135°, 7	75·0° 55% 143°, 12	76·0° 45% 145°, 12	75° 27% 180°, 12	71.5° 25% 185°, 13	69·5° 25% 177°, 11		69° 25 % 180°, 10	2,110	Large temp. inversion up to 700 metres. Almost cloudless. Ground wind increased from 5 to 9 m.p.s. during flight.
10	Feb. 19th, 10.10 a.m. to 11.20 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	75° 90% 110°, 7	76° 60% 110°, 13	76° 50% 130°, 16	78·5° 40% 130°, 17				75·5 40% 130°, 18	1,450	Clear day. London smoke.
11	Feb. 20th, 7.52 a.m. to 10.15 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	74·5° 63% 170°, 5	75° 50% 177°, 10	75·5° 45% 184°, 12	78·5° 27% 188°, 13				75·5° 25% 187°, 9	1,340	Very fine and bright, clear sky. Large negative temp. gradient up to 1,000 m. Wind at 750 m., 192°, 16.
12	Feb. 20th, 10.0 a.m. to 12.20 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	77° 70% 125°, 4	76° 70% 140°, 10	76° 50% 170°, 12	78° 30% 160°, 15				78 ?° 30% 160°, 15	1,050	Cloudless. Chart partly failed to turn.
13	Feb. 20th, 10.7 a.m. to 10.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	75·5° 95% 110°, 7	110°, 12	75·5° 50% 130°, 16	78·5° 40% 160°, 15				77.5° 30% 170° 14,	1,100	Clear day. London smoke. Chart partially failed to turn. The smoke as usual was limited to about the first 300 m.

63, Victoria Street, London, S.W. *February 24th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 8. EIGHTH WEEK, SUNDAY FEBRUARY 21ST TO SATURDAY FEBRUARY 27TH, 1909. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather.—During the early days of the week the sky was nearly clear over a large part of England and Scotland, but subsequently there was a good deal of cloud, and later in the period nearly all districts in Britain experienced snow or sleet, and Ireland sleet or rain. Observers in many parts of the country report the occurrence, on Monday evening, of a brilliant meteor, leaving a trail of light which remained visible for an unusually long time.

Temperature was a little above the average in Ireland and Scotland, and below it in England, the deficit being greatest (more than 5°) in England S.E. The highest of the maxima occurred on the 21st or 22nd at nearly all stations, and ranged from 57° in England N.W. and 56° in Scotland E. to 52° in England S.E. Late in the week the maxima were generally low, no higher than 36° in many English localities and below it at some stations. The lowest of the minima, which were recorded on irregular dates, varied from 11° in the Midlands, and 14° in England S.W. to 26° in Ireland N. and to 31° in the English Channel. The lowest grass readings reported were 2° at Llangammarch Wells, 9° at Birmingham, 11° at Oxford, Greenwich and Kew, 12° at Hereford, and between 14° and 20° in most other places.

Mean Temperature of the Sea.—On many parts of the coast the water had a very similar temperature to that of the corresponding week in 1908, but at Kirkwall it was more than 4° in excess, and at Eastbourne more than 4° colder. The actual values ranged from 47°·3 at Plymouth and nearly 47° on the south-west coast of Ireland to about 40° or below on the east and north east coasts of England and at Eastbourne.

Rainfall was much below the average generally; at a few places in England and Wales, and also at Douglas (Isle of Man) there was no measurable quantity. At Armagh on Wednesday morning the rain in the gauge and in pools on the ground was observed to be very black.

Bright Sunshine exceeded the normal in England, and also in Scotland N., but was below it in Ireland and the west and east of Scotland. The percentage of the possible duration ranged from 52 in the English Channel, and 43 in England S.W. and S.E. to 20 in the east and west of Scotland and to only 10 in the north of Ireland.

Barometer and Wind.—At the commencement of the week a large anticyclonic system was centred over Denmark, while pressure was relatively low on the Atlantic, and the wind over the United Kingdom light to fresh from the Southward. After Monday morning the high pressure extended gradually over this country, causing the wind to shift to some Easterly point, but towards the end of the period the extension to the south-east of England of a large depression having its centre over the Mediterranean, and a very brisk increase of pressure over the Icelandic region, occasioned a general backing to the Northward.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 68.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1 Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Moderate	Moderate	Deficient
	Rainfall ...	Light	Moderate	Light	Moderate	Light	Light	Light	Light	Very light	Light	Moderate	Light
	Sunshine ...	Moderate	Scanty	Moderate	Abundant	Abundant	Abundant	Moderate	Abundant	Abundant	Very scanty	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1908–9. 13 weeks from Nov. 29th, 1908.	Warmth ...	3 * 1	3 * 1	2 * 6	4 * 5	2 * 5	4 * 5	3 * 1	4 * 5	4 * 5	6 * 0	4 * 1	5 * 4
	Rainfall ...	2 * 5	2 * 5	0 * 6	2 * 7	2 * 7	3 * 8	4 * 3	2 * 6	3 * 8	3 * 4	3 * 5	4 * 8
	Sunshine ...	5 * 2	5 * 3	3 * 3	4 * 5	4 * 5	5 * 3	4 * 2	8 * 1	6 * 2	3 * 5	2 * 4	6 * 3

PAST SEASONS.

WINTER, 1907–8. Dec. 1st–Feb. 29th. 13 weeks.	Warmth ...	4 * 2	4 * 1	3 * 4	4 * 3	4 * 3	5 * 4	5 * 3	4 * 4	3 * 3	5 * 3	5 * 3	4 * 2
	Rainfall ...	4 * 4	6 * 5	4 * 6	5 * 5	4 * 8	3 * 7	7 * 3	8 * 4	3 * 4	6 * 3	2 * 3	4 * 5
	Sunshine ...	4 * 3	5 * 1	3 * 2	5 * 5	3 * 4	6 * 2	1 * 3	6 * 2	3 * 3	3 * 4	3 * 3	2 * 3
SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

EIGHTH WEEK—February 21st to 27th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	55	24	45·2	34·3	39·8	+ 1·9	9	+ 2	30	− 7	3	− 1	0·13	−0·81	18	+ 1	26	+ 2
Eastern																		
1. SCOTLAND, EAST	56	20	43·7	31·3	37·7	+ 0·8	5	− 3	38	− 5	3	0	0·23	−0·27	14	− 5	20	− 8
2. ENGLAND, N.E.	54	24	42·7	30·3	36·5	− 2·0	2	− 7	41	+ 7	2	− 2	0·20	−0·13	23	+ 4	33	+ 6
3. ENGLAND, EAST	53	17	40·8	27·6	34·2	− 4·2	0	− 12	55	+ 18	3	0	0·17	−0·16	26	+ 5	36	+ 8
4. MIDLAND COUNTIES	53	11	42·5	26·9	34·2	− 4·3	1	− 12	57	+ 19	2	− 1	0·05	−0·35	25	+ 8	36	+11
5. ENGLAND, S.E.	52	14	40·9	27·8	34·4	− 5·4	0	− 14	53	+ 23	3	+ 1	0·14	−0·29	31	+ 10	43	+14
Western																		
6. SCOTLAND, WEST	55	25	44·4	34·2	39·4	+ 0·5	7	− 2	30	− 2	2	− 2	0·12	−0·71	14	− 2	20	− 3
7. ENGLAND, N.W.	57	22	43·8	31·4	37·6	− 1·8	5	− 6	38	+ 8	2	− 2	0·11	−0·41	26	+ 7	37	+10
8. ENGLAND, S.W.	53	14	43·2	30·5	36·9	− 4·1	3	− 14	41	+ 17	1	− 3	0·04	−0·64	31	+ 10	43	+14
9. IRELAND, NORTH	54	26	46·2	38·9	42·6	+ 2·1	17	+ 3	9	− 16	4	0	0·34	−0·29	7	− 11	10	−16
10. IRELAND, SOUTH	54	25	47·6	37·1	42·4	+ 0·3	23	+ 2	14	− 6	4	+ 1	0·56	−0·20	19	− 1	26	− 2
11. ENGLISH CHANNEL	54	31	46·2	37·0	41·6	− 2·4	12	− 11	20	+ 10	2	− 2	0·19	−0·41	37	+ 12	52	+17

THE SEASON (**Winter**). Aggregates, &c., for the Period of 13 Weeks, November 29th, 1908, to February 27th, 1909.

0. SCOTLAND, NORTH	56	19	*	*	*	*	115	+ 21	322	−131	68	+ 1	15·47	−0·97	96	+ 3	15	+ 1
Eastern																		
1. SCOTLAND, EAST	58	16	*	*	*	*	95	− 1	479	− 57	45	− 7	6·06	−1·66	143	+ 4	21	+ 1
2. ENGLAND, N.E.	56	11	*	*	*	*	68	− 43	497	+ 67	40	− 7	3·30	−2·18	155	+ 8	21	+ 1
3. ENGLAND, EAST	58	7	*	*	*	*	81	− 43	463	− 24	45	− 4	3·46	−1·75	177	+ 10	24	+ 1
4. MIDLAND COUNTIES	57	3	*	*	*	*	98	− 43	511	+ 22	43	− 5	3·66	−2·77	154	+ 12	21	+ 2
5. ENGLAND, S.E.	56	3	*	*	*	*	148	− 30	385	+ 22	42	− 6	4·50	−2·34	205	+ 43	27	+ 5
Western																		
6. SCOTLAND, WEST	56	21	*	*	*	*	122	− 14	309	− 50	58	− 2	13·04	−0·92	123	+ 2	17	0
7. ENGLAND, N.W.	57	16	*	*	*	*	120	− 22	359	+ 8	49	− 5	7·01	−1·80	181	+ 53	25	+ 7
8. ENGLAND, SW	57	13	*	*	*	*	199	− 31	262	− 6	49	− 7	7·07	−4·21	212	+ 48	28	+ 6
9. IRELAND, NORTH	55	22	*	*	*	*	227	+ 50	197	−107	63	+ 1	9·88	−0·24	126	− 16	17	− 2
10. IRELAND, SOUTH	59	19	*	*	*	*	333	+ 57	169	− 62	60	+ 2	9·07	−2·91	155	− 11	21	− 7
11. ENGLISH CHANNEL	57	25	*	*	*	*	374	+ 23	99	+ 1	48	−14	7·66	−1·94	252	+ 46	32	+ 6

THE YEAR.—Aggregates, &c., for the Period of 8 Weeks, January 3rd to February 27th, 1909.

0. SCOTLAND, NORTH	56	19	*	*	*	*	44	− 10	226	− 68	40	− 1	8·48	−1·57	76	+ 5	17	+ 1
Eastern																		
1. SCOTLAND, EAST	58	18	*	*	*	*	39	− 22	311	− 25	27	− 4	4·05	−0·43	105	0	23	0
2. ENGLAND, N.E.	56	17	*	*	*	*	35	− 35	322	+ 54	21	− 8	1·80	−1·24	127	+ 21	27	+ 5
3. ENGLAND, EAST	58	17	*	*	*	*	35	− 42	327	+ 25	25	− 4	1·51	−1·51	157	+ 38	32	+ 8
4. MIDLAND COUNTIES	57	11	*	*	*	*	43	− 47	355	+ 55	21	− 8	1·63	−2·13	130	+ 29	27	+ 6
5. ENGLAND, S.E.	56	14	*	*	*	*	64	− 39	283	+ 53	20	− 8	1·45	−2·54	171	+ 59	35	+12
Western																		
6. SCOTLAND, WEST	55	21	*	*	*	*	54	− 26	206	− 26	32	− 4	7·32	−0·71	94	+ 6	20	+ 1
7. ENGLAND, N.W.	57	16	*	*	*	*	58	− 25	248	+ 26	26	− 7	4·02	−1·10	139	+ 46	29	+10
8. ENGLAND, S.W.	54	13	*	*	*	*	84	− 50	219	+ 44	23	−10	2·56	−3·74	169	+ 55	34	+11
9 IRELAND, NORTH	55	22	*	*	*	*	121	+ 11	122	− 70	37	0	5·53	−0·35	81	− 18	17	− 4
10. IRELAND, SOUTH	59	19	*	*	*	*	168	+ 3	120	− 26	32	− 2	4·52	−2·29	112	− 2	23	0
11. ENGLISH CHANNEL	54	25	*	*	*	*	174	− 22	90	+ 20	24	−13	3·11	−2·19	189	+ 48	37	+ 9

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked 𝔐 is supplied by the Royal Meteorological Society, and that for Stations marked 𝔖 is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*40*	*22nd*	*30*	*24th*	*44·0*	*35·4*	*39·7*	—	*6*	*25*	*5*	*0·28*	—	*17·5*	—	*27*	—	*Balta Sound.*
	a Sumburgh Head ..	48	22nd, 23rd	33	26th	44·6	36·9	40·8	+ 2·6	7	20	4	0·10	- 0·63	13·8	- 1·7	21	- 3	Deerness.
	a Stornoway	50	21st, 22nd	30	26th, 27th	46·1	35·0	40·6	+ 1·5	11	28	4	0·14	- 0·87	17·2	+ 0·7	26	+ 1	Stornoway.
	a Castlebay, Barra Isd.	*49*	*22nd*	*38*	*23, 26, 27th*	*45·4*	*40·3*	*42·9*	+ *1·4*	*13*	*5*	*5*	*0·21*	—	*8·9*	—	*13*	—	*Castlebay.*
	a Wick	49	21st, 23rd	30	23rd, 24th	44·9	34·6	39·8	+ 2·0	8	28	5	0·16	- 0·37	*	*	*	*	*
	p Strathpeffer	52	21st	27	25th	44·9	34·8	39·9	+ 2·4	8	28	1	0·07	- 0·57	19·2	+ 2·7	22	+ 4	Strathpeffer.
	p Glencarron	55	21st, 22nd	24	26th	46·2	31·9	39·1	+ 2·3	12	39	2	0·19	- 1·58	*	*	*	*	*
	p Fort Augustus S	51	21st	25	25th	44·8	33·7	39·3	+ 1·1	8	31	1	0·09	- 0·90	19·6	+ 7·8	29	+11	Fort Augustus.
	p Fort William S	50	21st	27	25th	45·0	33·2	39·1	- 0·1	8	33	2	0·13	- 1·61	*	*	*	*	*
1. SCOTLAND, E. .. .. — b, Mainland.	*p* Gordon Castle S	54	21st	29	21st	45·6	33·3	39·5	+ 0·8	10	33	2	0·26	- 0·26	*16·8*	—	*35*	—	*Gordon Castle.*
	a Nairn	54	21st	24	26th	45·6	31·0	38·3	+ 0·3	10	41	1	0·11	- 0·34	22·9	—	34	—	Nairn.
	a Aberdeen	47	21st, 23rd	34	22nd, 27th	43·3	36·3	39·8	+ 1·5	4	21	4	0·17	- 0·36	8·5	-11·0	13	-16	Aberdeen.
	a Balmoral .. S	48	21st	22	25th	44·1	28·9	36·5	+ 2·2	6	47	2	0·23	- 0·42	12·3	—	18	—	Crathes S.
	p Crieff .. .. S	49	23rd	25	25th	42·5	31·1	36·8	- 1·5	1	39	2	0·07	- 0·72	11·2	—	17	—	Balruddery
	a Leith	54	21st	27	21st, 25th	44·0	31·1	37·6	- 2·0	6	40	5	0·10	- 0·27	10·5	- 4·7	15	- 7	Edinburgh.
	a West Linton .. S	49	21st	20	25th	40·4	30·6	35·5	- 1·3	0	46	3	0·26	—	*18·3*	—	*27*	—	*West Linton.*
	p Marchmont .. S	56	21st	27	25th	43·7	30·7	37·2	- 0·2	5	41	4	0·65	+ 0·13	15·4	- 2·4	22	- 4	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	54	22nd	24	22nd	42·8	30·6	36·7	- 1·8	2	40	2	0·54	+ 0·04	19·2	—	28	—	Cockle Park.
	a Shields	52	22nd	27	21st, 22nd	43·4	31·1	37·3	- 1·9	4	39	3	0·23	- 0·11	*10·6*	*- 3·0*	*15*	- 4	*Newcastle.*
	p Durham	51	22nd	25	21st	41·8	29·0	35·4	- 2·6	0	46	3	0·31	- 0·03	17·0	- 0·9	25	- 1	Durham.
	p Rounton .. M	51	22nd	26	25th	43·1	29·3	36·2	- 1·8	3	45	2	0·18	- 0·20	*	*	*	*	*
	p Scarborough .. M	53	22nd	31	21st	44·9	34·0	39·5	+ 0·2	8	30	2	0·20	- 0·24	27·0	—	39	—	Scarborough.
	p York	50	22nd	25	23rd	43·7	30·0	36·9	- 2·1	5	44	2	0·13	- 0·26	12·0	- 4·0	17	- 6	York.
— b, South.	*a* Spurn Head	44	21st, 23rd	32	23, 24, 25th	40·1	32·9	36·5	- 2·7	0	39	2	0·04	- 0·26	*	*	*	*	*
	a Lincoln	50	21st, 22nd	24	23rd	42·4	27·8	35·1	- 3·8	1	50	3	0·07	- 0·30	33·1	—	47	—	Skegness.
	a Fulbeck	52	22nd	25	23rd	41·9	28·0	35·0	- 4·3	0	49	3	0·09	- 0·28	28·5	—	41	—	Rauceby.
															27·0	—	*38*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	53	21st	30	24th, 25th	41·6	31·0	36·3	- 1·4	0	40	2	0·12	—	29·2	—	42	—	Cromer.
	p Hillington .. M	52	21st	19	23rd	42·4	26·2	34·3	- 4·4	1	56	3	0·19	- 0·22	30·7	+11·4	44	+16	Hillington.
	a Yarmouth	43	21st	26	23rd	37·9	30·1	34·0	- 4·4	0	56	3	0·18	- 0·16	27·0	—	38	—	Yarmouth.
	a Norwich	50	21st, 22nd	23	22nd, 23rd	41·1	27·3	34·2	- 4·3	0	55	3	0·20	—	*	*	*	*	*
	p Geldeston	50	22nd	19	22nd	40·4	25·3	32·9	- 6·3	0	64	4	0·29	- 0·05	21·3	+ 1·0	30	+ 1	Geldeston.
	p Cambridge	52	21st	17	23rd	42·6	25·6	34·1	- 5·1	2	58	2	0·07	- 0·26	24·3	+ 4·0	34	+ 6	Cambridge.
— b, South.	*a Felixstowe*	*43*	*21st*	*22*	*23rd*	*37·7*	*27·1*	*33·4*	*- 6·8*	*0*	*67*	*4*	*0·34*	—	*29·6*	—	*42*	—	*Felixstowe.*
	a Clacton-on-Sea ..	44	21, 22, 23rd	28	23rd, 27th	38·7	30·9	34·8	- 4·3	0	50	3	0·27	—	30·8	—	43	—	Clacton.
	a Rothamsted ..	49	23rd	18	23rd	40·9	24·6	32·8	- 5·7	0	64	3	0·12	- 0·32	25·9	+ 7·1	37	+10	Rothamsted.
	a Shoeburyness ..	*44*	*23rd*	*25*	*22nd*	*38·0*	*28·4*	*33·2*	*- 6·5*	*0*	*62*	*3*	*0·27*	*- 0·01*	*30·0*	—	*42*	—	*Southend.*
	p Tottenham	50	21st	21	23rd	41·4	27·0	34·2	- 5·7	0	55	2	0·08	—	20·5	—	29	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	47	23rd	24	21st	40·6	28·1	34·4	- 3·3	0	53	3	0·11	- 0·40	19·3	—	28	—	Harrogate.
	a Bawtry	51	21st, 22nd	21	21, 22, 23rd	43·7	26·1	34·9	- 4·2	5	57	2	0·05	- 0·32	23·8	+ 7·8	34	+11	Worksop.
	p Buxton .. M	*49*	*22nd*	*20*	*23rd*	*39·8*	*25·8*	*32·8*	*+ 3·4*	*0*	*64*	*1*	*0·03*	*- 0·90*	*30·5*	—	*44*	—	*Buxton.*
	a Nottingham ..	52	22nd	21	22nd, 23rd	43·0	25·6	34·3	- 4·7	3	58	2	0·05	- 0·34	24·7	—	35	—	Nottingham.
	p Birmingham, Edgbsn	52	21st, 22nd	27	22nd, 24th	42·2	28·6	35·4	- 3·4	1	47	1	0·04	- 0·37	20·1	—	28	—	Birmingham.
	a Raunds .. M	51	22nd	11	23rd	42·0	21·6	31·8	- 7·1	0	71	2	0·11	—	*	*	*	*	*
— b, West.	*a* Oxford	52	21st	19	23rd	42·6	24·7	33·7	- 6·1	2	61	2	0·08	- 0·31	29·4	+11·1	41	+16	Oxford.
	a Cheadle .. M	50	23rd	25	25th	40·9	28·2	34·6	- 3·3	0	52	2	0·02	- 0·48	21·3	—	30	—	Sheffield.
	p Shrewsbury	53	22nd	20	23, 24, 25th	44·3	25·3	34·8	- 5·2	6	60	2	0·09	—	*	*	*	*	*
	a Hereford .. M	52	21st	21	23rd	42·5	27·0	34·8	- 5·0	1	53	2	0·03	- 0·44	*	*	*	*	*
	a Cirencester	50	21st, 23rd	15	23rd	42·0	24·9	33·5	- 5·0	0	60	0	0·00	- 0·50	29·3	+ 9·7	41	+14	Cirencester.
	a Bath	53	21st	18	23rd	44·0	25·3	34·7	- 5·7	6	50	1	0·01	- 0·49	34·0	—	48	—	Bath.
															27·6	—	*39*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	52	21st	22	23rd	41·5	28·0	34·8	- 5·2	0	50	2	0·06	- 0·32	18·5	+ 2·9	26	+ 4	Kew.
	a Marlborough ..	49	21st	14	23rd	41·3	22·0	31·7	- 7·2	0	72	3	0·10	- 0·46	27·1	+10·8	38	+15	Marlborough.
	a Margate	51	21st	29	23rd	40·5	31·6	36·1	- 3·9	0	41	3	0·26	- 0·10	30·0	+10·4	42	+15	Margate.
	a Wisley, Surrey ..	52	21st	17	23rd	41·1	25·4	33·3	- 7·1	0	61	2	0·04	—	24·5	—	35	—	Wisley.
	a Swarraton .. M	51	21st	18	23rd	41·2	24·1	32·7	- 6·3	0	65	2	0·12	- 0·42	36·3	—	51	—	Worthing.
	a Tunbridge Wells M	50	21st	19	23rd	39·1	26·5	32·8	- 6·2	0	64	4	0·30	- 0·23	33·5	+14·9	47	+21	Tunbridge Wells.
	a Dungeness	46	21st	20	23rd, 24th	39·3	28·1	33·7	- 6·3	0	58	4	0·18	- 0·19	34·9	—	49	—	Littlestone.
	p Hastings	49	23rd	28	24th, 27th	39·6	30·8	35·2	- 5·1	0	48	4	0·20	- 0·30	*38·2*	*+16·1*	*54*	*+13*	*Hastings.*
	p Southampton ..	51	22nd	24	23rd	43·2	28·8	36·0	- 5·7	3	47	2	0·09	- 0·42	31·6	+11·1	45	+16	Southampton.
	a Ventnor	50	23rd	29	25th, 27th	42·6	32·9	37·8	- 4·2	2	33	2	0·05	- 0·45	35·3	+13·1	50	+18	Ventnor.
															34·3	+13·6	48	+19	Eastbourne.
LONDON	*a Westminster* ..	*52*	*21st*	*33*	*23rd, 24th*	*42·1*	*28·9*	*35·5*	*- 4·5*	*0*	*46*	*2*	*0·05*	*- 0·34*	*14·0*	*+ 4·3*	*20*	*+ 6*	*Westminster.*
	a Greenwich	*53*	*21st*	*19*	*23rd*	*40·9*	*26·6*	*33·8*	*- 6·4*	*0*	*57*	*3*	*0·13*	*- 0·25*	*22·4*	*+ 6·8*	*32*	*+10*	*Greenwich.*
6. — a, SCOTLAND. W. ..	*p* Laudale	49	21st, 22nd	29	26th, 27th	45·2	34·2	39·7	- 0·5	9	30	3	0·28	- 1·31	*	*	*	*	*
	a Poltalloch .. S	48	21st, 27th	27	27th	43·4	33·6	38·5	- 0·5	4	30	4	0·29	- 0·58	*	*	*	*	*
	p Glasgow	51	21st	30	25th	43·8	35·5	39·7	+ 0·7	5	24	1	0·02	- 0·63	8·0	- 4·2	12	- 6	Glasgow.
	p Rothesay .. S	51	21st	29	27th	44·6	35·7	40·2	+ 0·3	7	24	1	0·21	- 0·64	*	*	*	*	*
	a Kilmarnock	53	21st	27	25th	44·1	35·0	39·6	+ 0·6	6	26	3	0·11	—	*8·9*	—	*13*	—	*Kilmarnock.*
	a Colmonell	53	21st	29	27th	44·4	32·8	38·6	- 0·1	7	34	2	0·10	- 0·77	*	*	*	*	*
	p Dumfries .. S	55	21st	26	25th	45·2	32·3	38·8	- 0·4	9	37	2	0·04	- 0·69	*	*	*	*	*
	p Cally, Gatehouse S	46	24th	25	25th	44·6	32·7	38·7	- 0·1	7	35	1	0·02	- 0·97	*	*	*	*	*
— b, ISLE OF MAN ..	*p* Douglas	49	22nd	33	25th, 26th	44·4	36·3	40·4	0·0	7	22	0	0·00	- 0·78	19·0	- 0·7	28	- 1	Douglas.
															25·5	—	36	—	Hoylake.
															17·6		26		Aspatria.
7. — a, ENGLAND, N.W. ..	*p* Aspatria	55	21st	26	25th	44·9	33·4	39·2	+ 1·2	8	32	2	0·14	- 0·43	17·6		26		
	p Newton Rigg ..	53	22nd	23	25th	43·7	30·0	36·9	- 0·1	5	44	3	0·29	- 0·41	20·5	+ 3·5	30	+ 5	Newton Rigg.
	p Stonyhurst	48	22nd, 23rd	27	25th	42·6	30·7	36·7	- 1·9	2	40	2	0·16	- 0·64	24·8	+ 8·6	35	+12	Stonyhurst.
	p Blackpool .. M	51	22nd	22	25th	43·7	29·9	36·8	- 2·5	5	44	2	0·11	- 0·42	26·1	+ 8·9	37	+13	Blackpool.
	p M'nch'ster, Prestwich	52	22nd	28	25th	42·5	29·8	36·2	- 2·6	1	43	1	0·09	- 0·46	*16·3*	*+ 4·8*	*23*	*+ 7*	*Prestwich.*
	a Liverpool (Bidston)	49	22nd	27	25th	42·3	30·9	36·6	- 3·1	1	39	2	0·08	- 0·35	*30·4*	—	*43*	—	*Liverpool.*
	a Hawarden Bridge ..	51	22nd	25	25th	42·9	28·3	35·6	- 4·9	3	49	1	0·08	- 0·28	*25·1*	*+ 7·1*	*36*	*+10*	*Southport.*
															27·6	—	*39*	—	*Rhyl.*
— b, NORTH WALES ..	*p* Llandudno .. M	49	23rd	27	25th	44·1	34·6	39·4	- 2·2	6	28	2	0·04	- 0·44	26·9	+ 8·1	38	+12	Llandudno.
	a Holyhead	53	21st	33	25th, 26th	45·3	36·4	40·9	- 0·7	9	22	0	0·00	- 0·58	38·5	—	54	—	Aberdovey.
	p Bettws-y-Coed ..	57	21st, 22nd	22	25th	46·3	29·9	38·1	- 2·9	12	45	2	0·09	—	25·0	—	36	—	Bettws-y-Coed.
															25·0	—	35	—	Aberystwyth.
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	53	21st	14	23rd, 25th	43·8	21·4	32·6	- 5·9	5	73	2	0·07	—	25·9	—	37	—	Llangammarch Wells.
	a Pembroke	49	23rd	30	25th, 26th	44·0	34·9	39·5	- 2·5	6	27	2	0·16	- 0·45	25·9	+ 5·2	37	+ 7	Pembroke.
	a Cardiff	52	21st	25	23rd	42·6	28·7	35·7	- 4·6	2	47	2	0·03	- 0·68	*32·9*	—	*46*	—	*Cardiff.*
															32·2	*+10·7*	*45*	*+15*	*Tenby.*
	a Clifton	51	21st	25	23rd	42·6	28·7	35·7	- 4·8	2	47	1	0·01	- 0·55	*23·2*	—	*40*	—	*Clifton.*
	a Shaftesbury .. M	49	22nd, 23rd	24	27th	40·8	29·1	35·0	- 3·9	0	49	2	0·05	- 0·52	*	*	*	*	*
	a Arlington	52	23rd	23	25th	43·1	30·4	36·8	- 2·9	3	42	1	0·02	- 0·90	36·0	+14·4	51	+20	Newquay.
— b, ENGLAND, S.W. ..	*a* Cullompton .. M	53	22nd	22	23rd, 25th	44·6	27·3	36·0	- 4·9	7	54	1	0·02	- 0·63	27·2	+ 8·2	38	+12	Cullompton.
	a Portland Bill ..	49	23rd	28	25th	41·9	33·6	37·8	- 4·0	0	29	0	0·00	—	*35·0*	—	*49*	—	*Weymouth.*
	p Plymouth	51	23rd, 24th	29	25th	45·1	33·9	39·5	- 2·9	9	31	0	0·00	- 0·64	36·0	+15·0	50	+21	Plymouth.
	p Falmouth	50	21st	31	25th	43·7	37·3	40·5	- 2·8	5	18	1	0·05	- 0·78	37·2	+14·1	52	+20	Falmouth.
															30·8	*+ 9·4*	*43*	*+13*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	52	21st	33	26th	45·1	38·7	41·9	+ 0·9	9	14	4	0·30	- 0·23	*	*	*	*	*
	a Blacksod Point ..	54	21st	33	27th	48·4	41·0	44·7	+ 2·0	23	3	4	0·50	- 0·37	*	*	*	*	*
	p Markree Castle ..	53	21st	30	27th	47·4	38·7	43·1	+ 2·7	22	9	6	0·36	- 0·39	4·1	-13·0	6	-19	Markree Castle.
— b, East.	*p* Armagh	52	21st	26	27th	45·6	36·5	41·1	+ 1·0	10	22	6	0·29	- 0·22	10·1	- 6·6	15	-10	Armagh.
	a Donaghadee	49	21st	35	27th	44·3	39·6	42·0	+ 1·0	6	7	2	0·26	- 0·29	*	*	*	*	*
10. IRELAND, S. — a, East.	*p* Dublin, City	52	22nd	32	27th	47·0	39·1	43·1	+ 0·6	20	8	1	0·08	- 0·41	14·4	- 5·3	21	- 8	Phœnix Park.
	a Kilkenny	52	21st	28	24th	46·9	35·6	41·3	+ 0·2	14	26	4	0·20	- 0·41	*	*	*	*	*
	a Waterford	54	21st	30	24th, 25th	47·3	36·1	41·7	- 0·1	15	24	3	0·10	- 0·66	*	*	*	*	*
	a Birr Castle	53	21st	25	24th	47·7	34·7	41·2	+ 0·5	16	30	4	0·38	- 0·14	16·3	- 1·5	23	- 2	Birr Castle.
	a Foynes	53	21st	29	27th	46·7	37·9	42·3	- 0·5	19	11	7	0·63	- 0·10	*	*	*	*	*
— b, West.	*a* Cahir .. .. M	52	21st	26	24th	47·2	36·5	41·9	+ 0·2	15	23	5	0·53	—	*	*	*	*	*
	a Killarney	54	21st	27	27th	49·5	36·3	42·9	+ 0·1	30	16	4	1·35	+ 0·15	*	*	*	*	*
	a Valencia	53	21st	31	25th	49·0	38·3	43·7	- 0·7	27	10	4	1·27	+ 0·09	25·5	+ 5·9	36	+ 8	Valencia.
	a Roche's Point ..	50	21st	33	27th	46·9	39·4	43·2	- 0·3	19	7	6	0·54	- 0·29	18·3	—	26	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	52	21st, 22nd	37	26th, 27th	48·9	40·7	44·8	- 0·4	25	4	1	0·13	- 0·50	38·2	+14·9	53	+21	Scilly.
	a Jersey, St. Aubins ..	51	22nd	31	27th	44·6	33·7	39·2	- 3·9	7	31	2	0·12	- 0·42	38·3	+13·5	53	+19	St. Heliers.
	a Guernsey	54	22nd	32	27th	45·0	36·5	40·8	- 3·0	8	22	2	0·32	- 0·31	34·8	+10·8	48	+15	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 32·3 hrs.* (*+11·3 hrs.*), *46 %* (*+16 %*); *Bournemouth, 36·7 hrs., 52 %*; *Bognor, 37·0 hrs., 52 %*.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	— — ..				
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	38·9
	Crathes	4	26	36·4	37·8
	Balmoral	7	20	—	—
	West Linton ..	5	16	—	—
	Marchmont ..	5	21	35·6	—
2.	Cockle Park	7	15	34·3	38·0
	Durham	7	23	—	—
	York	—	—	35·8	39·8
	Hull	6	20	36·0	41·0
	Lincoln	—	—	33·4	38·1
	Rauceby	7	20	35·2	41·1
3.	Norwich	7	17	—	—
	Yarmouth	—	—	34·4	40·6
	Lowestoft	6	20	35·1	39·5
	Cambridge	7	16	34·4	40·1
	Clacton-on-Sea ..	7	17	37·5	42·0
	Southend	7	21	36·6	—
	Tottenham	7	16	—	41·2

	STATION.	Grass Min. No. of Obs. of 30° or less	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	7	18	55·3	38·1
	Huddersfield ..	7	19	34·6	38·9
	Buxton	7	15	34·1	39·7
	Sheffield	7	20	34·3	39·4
	Nottingham	6	16	33·3	37·3
	Birmingham	7	9	36·8	42·7
	Oxford	7	11	—	—
	Hereford	7	12	—	—
	Cirencester	7	17	—	—
5.	Margate	5	26	35·5	39·5
	Greenwich	7	11	—	—
	Westminster ..	7	16	—	—
	Kew	7	11	34·1	41·1
	Canterbury	7	15	35·7	42·4
	Tunbridge Wells ..	7	14	34·1	—
	Wisley	7	14	34·5	40·1
	Worthing	7	19	36·1	41·9
	Portsmouth	7	14	36·2	42·2
6.	Glasgow	4	25	—	—
	Rothesay	—	—	—	42·3
	Colmonel	4	25	—	—
	Dumfries	4	18	—	—
	Douglas	2	27	—	—

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
7.	Aspatria	6	18	—	—
	Newton Rigg ..	6	17	35·7	38·4
	Burnley	7	18	33·8	39·0
	Southport	6	16	33·8	38·5
	Manchester City ..	? 5	26	34·0	40·5
	Bettws-y-Coed ..	4	21	36·3	42·0
8.	Llangammarch Wells	7	2	36·4	42·8
	Cardiff	7	15	35·6	41·3
	Clifton	7	20	—	—
	Bath	—	—	37·0	43·1
	Plymouth	6	15	38·0	—
9.	Armagh	2	21	41·1	43·2
	Markree	1	22	—	—
10.	Dublin, Trin. Coll. ..				
11.	Guernsey, Brooklyn	5	27	40·1	44·3

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	42	43·0
	Kirkwall	43	42	42·6
	Wick	45	44	44·1
SCOTLAND, E.	Cromarty	44	42	43·2
	Pennan Bay	42	40	41·2
	Aberdeen, Cove Bay ..	42	38	40·5
ENGLAND, N.E.	Burnmouth, Berwick ..	41	39	39·9
ENGLAND, E.	Scarborough	42	36	39·5
	Shipwash Lightship ..	40	35	38·5
ENGLAND, S.E.	Margate	39	35	37·1
	Eastbourne‡	39	36	37·4

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	45	43	44·3
	Ballantrae	43	42	42·6
ENGLAND, N.W.	Port Erin	45	43	43·9
	Newquay	46	45	45·7
ENGLAND, S.W.	Plymouth‡	48	46	47·3
	Salcombe	46	42	45·0
IRELAND, N.W.	Sheephaven	46	44	45·1
	Teelin	47	45	45·7
IRELAND, S.W.	Cleggan	48	46	46·8
	Seafield	48	44	46·7
IRELAND, E.	.. ..			

‡ Only one observation each day.

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1909.	Station.	Wind direction in degrees, 90° = E, 180° = S, 270° = W, 360° = N, and velocity, metres per second. Ground Level.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres.	4,000 metres.	4,500 metres.	5,000 metres.	5,500 metres.	6,000 metres.	7,000 metres.	8,000 metres.
1	February 22nd, 12.11 p.m. to 12.31 p.m.	Howard Estate, Glossop, 335 m.	180°, 3·5	192°, 5·5	200°, 8·1	198°, 7·9	195°, 10·0	180°, 8·5	190°, 3·0								
2	February 23rd, 11.52 a.m. to 12.31 p.m.	Howard Estate, Glossop, 335 m.	90°, 2·5	87°, 3·1	60°, 3·5	40°, 4·0	27°, 5·7	55°, 3·0	355°, 3·0	345°, 2·8	345°, 3·1	345°, 3·1	330°, 3·5	320°, 3·8	320°, 5·2		
3	February 22nd, 3.45 p.m.	Pyrton Hill, Oxon, 150 m.	110°, 3	—	110°, 4	—	120°, 4	—	80°, 5	—	45°, 6	—	30°, 7	—	25°, 5	20°, 5	15°, 7
					9,000 m. 10°, 13	10,000 m. 360°, 17	11,000 m. 350°, 19	12,000 hr. 345°, 16	13,000 m. 345°, 9	14,000 m. 350°, 10	15,000 m. 355°, 11	16,000 m. 355°, 13	17,000 m. 355°, 14	18,000 m. 360°, 14	19,000 m. 360°, 15		

NOTES.—No. **1.**—One theodolite used. Uniform ascensional velocity of 2·1 m.p.s. assumed.
No. **2.**—One theodolite used. Uniform ascensional velocity of 2·5 m.p.s. assumed.
No. **3.**—One theodolite for 98 minutes. Uniform ascensional velocity 1·7 m.p.s. assumed. Balloon seen to burst.

APPARATUS USED IN THE KITE ASCENTS ON p. 72.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12	13
No. of Kites	2	2	1	—	2	1	2	1	2	1	1	1	2
Area of Surface (sq. metres) ..	14·2	9·4	7·1	—	14·2	7	14·2	7·5	14·2	7·5	7·1	7·1	9·4
Capacity of Balloon (cub. metres)	—	—	—	4·0	—	—	—	—	—	—	—	—	—
Length of Wire (metres) ..	2,500	2,000	1,050	—	1,600	1,500	2,300	1,100	1,920	1,800	?	920	2,000

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

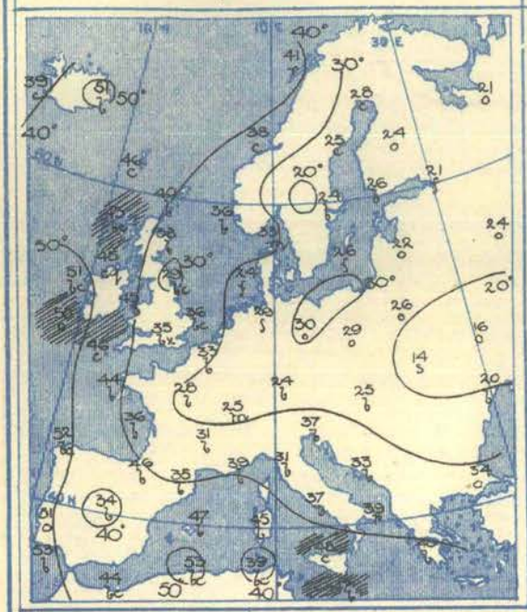
The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = [2]73°, Normal boiling point of water = [3]73°). The figure in the "hundreds" place [2] is not printed in the tables. Values at or below the freezing point of water (73°) are printed in heavy type.

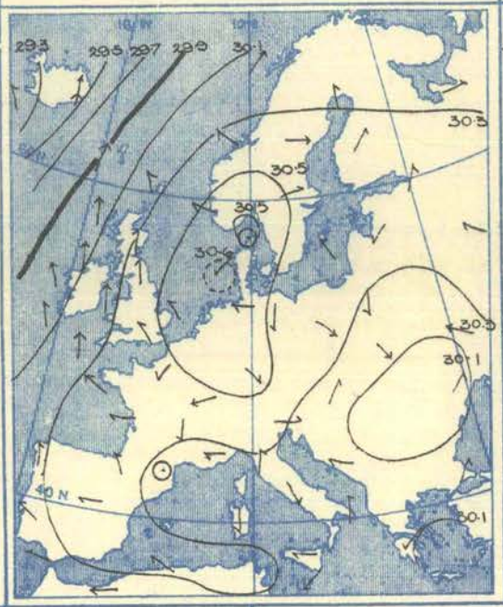
Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Sunday, 21st February, 1909.

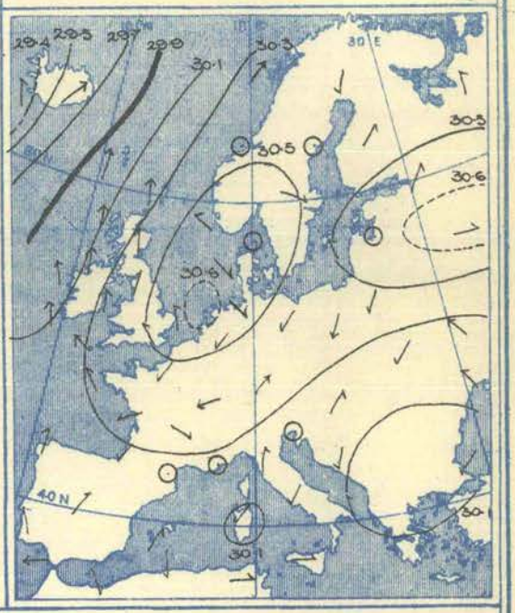
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over most of our area, but rain falling at Bodö and Brindisi, and snow at Lemberg and Nicolaieff. Much cloud prevailing in Russia. Nearly an inch of rain later at Valencia Island, but conditions continuing dry generally, and extremely bright over Great Britain. A considerable amount of snow falling in the south of Russia.

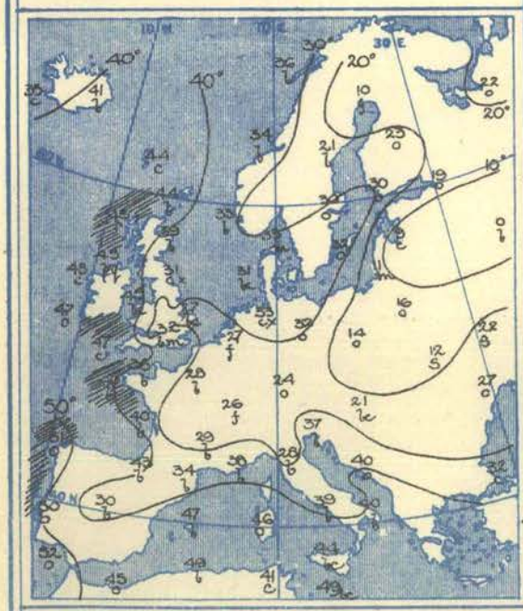
Temperature showing no great or general change. Morning readings about 50° at some Irish stations, but below 25° in central England. Several degrees below 32° over most of the Continent, and not much above it at some of the southern stations. Above 50° on the coast of the Peninsula and at Algiers. Rising subsequently to 50° in many parts of these Islands and France, and to 61° at Biarritz, but remaining below 40° over a large portion of central Europe, and only touching 35° at Constantinople and 46° at Brindisi. Maxima about 60° or rather higher on the coasts of Spain and Algeria.

Wind in morning anticyclonic over the greater portion of our area. Southerly current strong on our western coasts and blowing a gale at Seydisfjord. A well marked cyclonic movement prevailing in the east and south-east of Europe, but little force reported. No important change later; backing to South South-East in the west of Ireland, and becoming high at Blacksod Point.

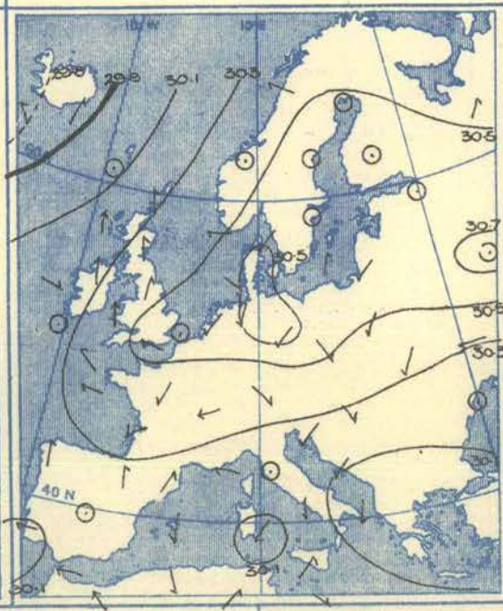
Barometer in morning ranging from above 30·6 ins. in a very large high pressure system having its maximum over Jutland to below 30·1 ins. in a large depression with slight gradients over the south-east of our area, and to below 29·3 ins. in the west of Iceland. No change in the general distribution during day; barometer rising in most regions, the change being very brisk over the northern and central parts of Russia. A shallow depression appearing over Sardinia.

Monday, 22nd February. 1909.

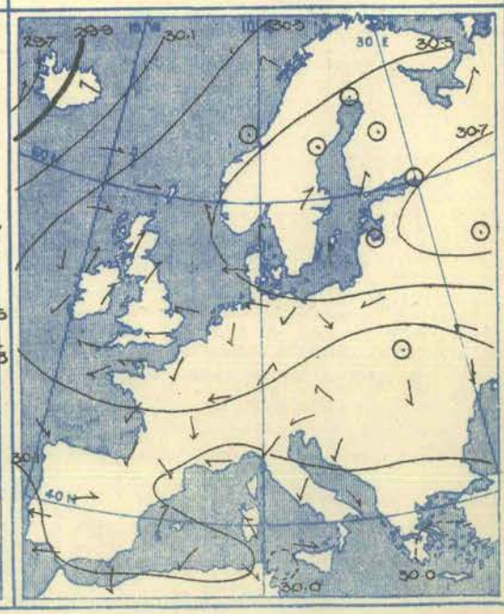
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very bright over our area generally, but rainy on our extreme north-west coasts, snow falling in Poland and southern Russia, and sky overcast in some other parts of Russia and in various German localities. Continuing dry and fine in most regions, with much sunshine in England and Wales, but a little snow experienced in a few places on the Continent.

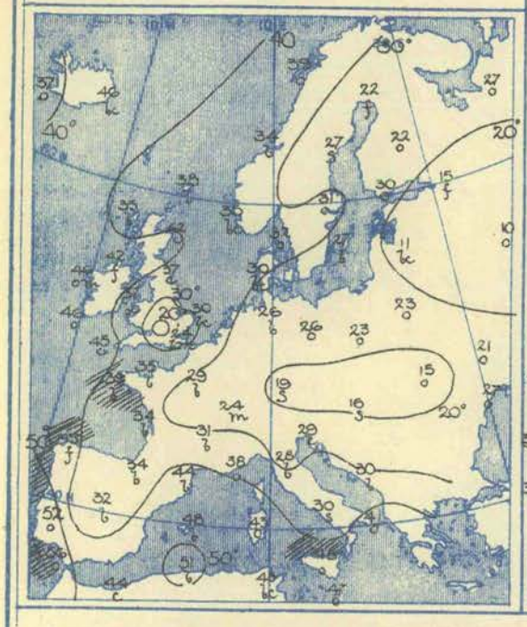
Temperature fallen generally. Morning readings zero at Moscow and below 20° in Poland and some other parts of Russia; below 32° over most of the mainland of Europe and in the central counties of England. Above 45° on our extreme western coasts, and about 50° in a few localities in the far south and south-west of our area. Rising later to about 50° in some parts of these Islands and to 60° or rather higher in southern Spain and on the coast of Algeria, but frost continuing throughout the day in Austria-Hungary, and maxima very little above 32° in Germany.

Wind in morning showing a vast anticyclonic movement occupying nearly the whole of our area; scarcely any force beyond a moderate breeze, but Southerly current blowing a high wind at Stornoway. A light to moderate cyclonic circulation prevailing over the Mediterranean. Very little change during day over our area generally; wind veering to West and falling light at Stornoway, but increasing to a very strong breeze from South in the west of Iceland.

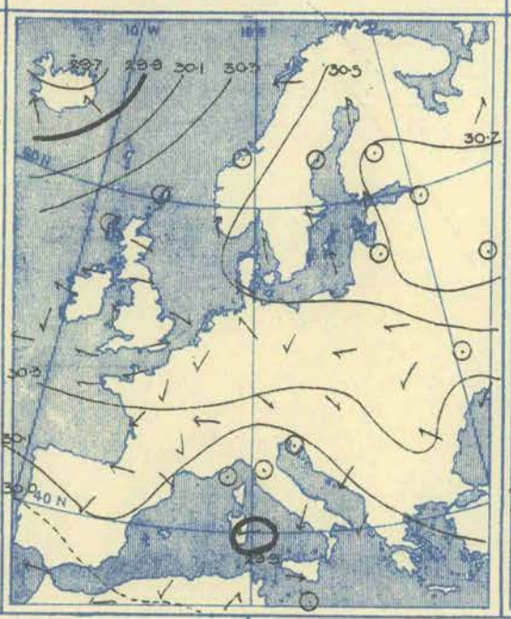
Barometer in morning ranging from above 30·7 ins. in a very large anticyclonic having its maximum over Russia to below 30·1 ins. in a depression over Sardinia, and to below 29·8 ins. in the west of Iceland. Little change in the distribution during day. Pressure increasing on the north-west coasts of these Islands and decreasing over England and the nearer parts of the Continent.

Tuesday, 23rd February, 1909.

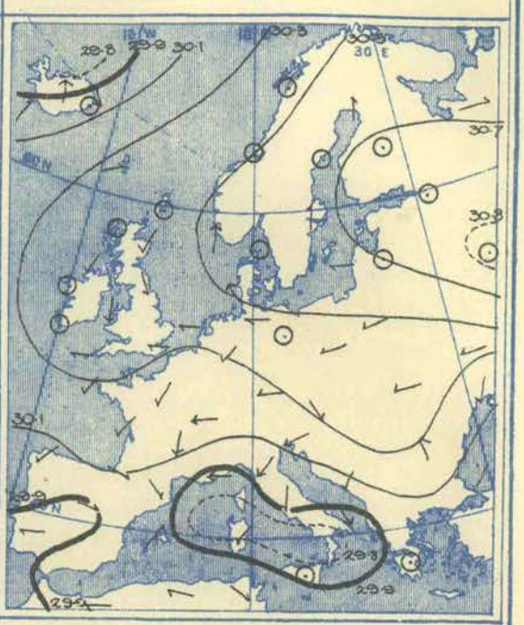
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying a good deal; fair to fine in most regions, but overcast in many localities, with snow at various stations in central Europe and at Hernösand, and slight rain at Donaghadee. Mist or fog rather general in these Islands. Some rain later in the north-east of Great Britain, as well as on the coasts of Sardinia and Sicily. Day very bright on the west, south, and south-east coasts of England.

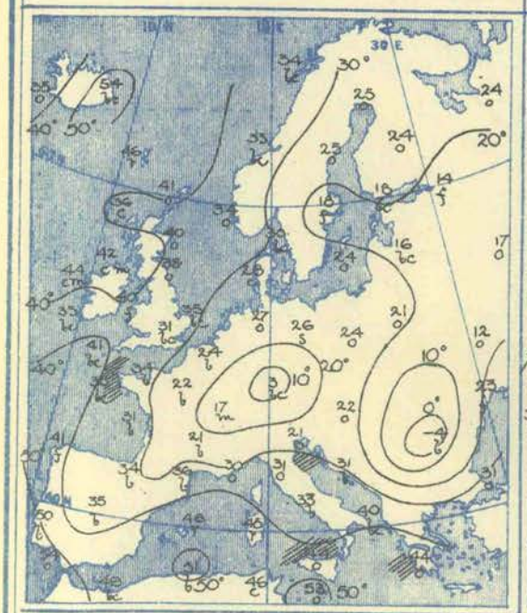
Temperature fallen generally, risen in some northern regions. Readings in morning below 32° over the major portion of our area, below 20° at many places in the central and eastern countries, and as low as –4° at Hermanstadt. Above 50° on the west and south-west coasts of the Peninsula and at Algiers and Barcelona. Maxima during day about 60° in the far south of Europe and on the coast of north Africa, but below 50° in Italy and the south of France, and below 32° over a large portion of central Europe. Thermometer rising to nearly 50° in the south and west of these Islands, but only touching 42° at places on the east coast.

Wind in morning cyclonic over the Mediterranean and in the Icelandic region, anticyclonic elsewhere; light in force generally, but strong at San Fernando and high at Reykjavik. Direction rather variable in these Islands. Little change of importance later in day.

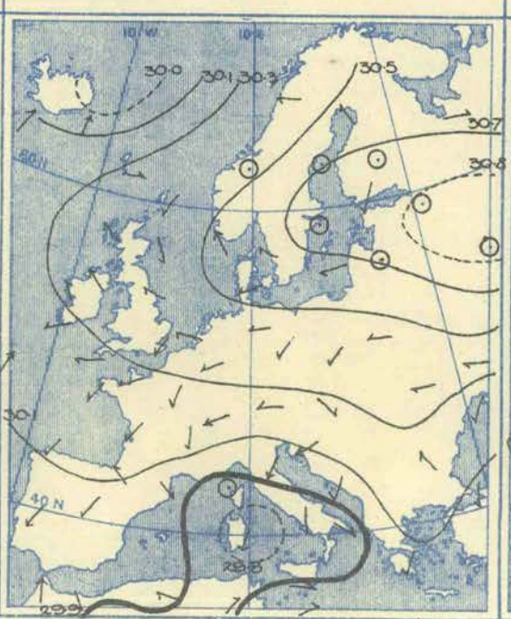
Barometer in morning above 30·7 ins. in a very large anticyclone centred over the northern half of Russia, and relatively high over nearly the whole of our area, but below 29·9 ins. in a depression over Sardinia, and below 29·7 ins. off the north of Iceland. A very shallow irregularity of pressure shown off the east of England. Some slight modification in the distribution of pressure taking place later in various districts, but general situation undergoing little change.

Wednesday, 24th February, 1909.

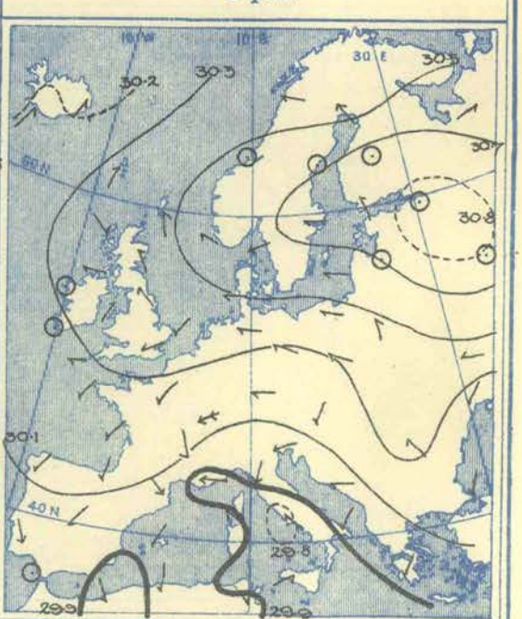
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying a good deal; fine to very bright in nearly all parts of Ireland, England, and France, but some rain falling locally in Scotland, and sky very cloudy or overcast over the major portion of Russia, central Europe, and the Mediterranean. Snow falling at some German and Polish stations, and also at Pesaro, and rain at Cagliari and Palma. A few slight showers later in the north and north-west of these Islands, and a little snow in some parts of central Europe. Heavy rain, more than an inch, at San Fernando, and nearly half an inch at Naples. Day again very bright in most parts of England.

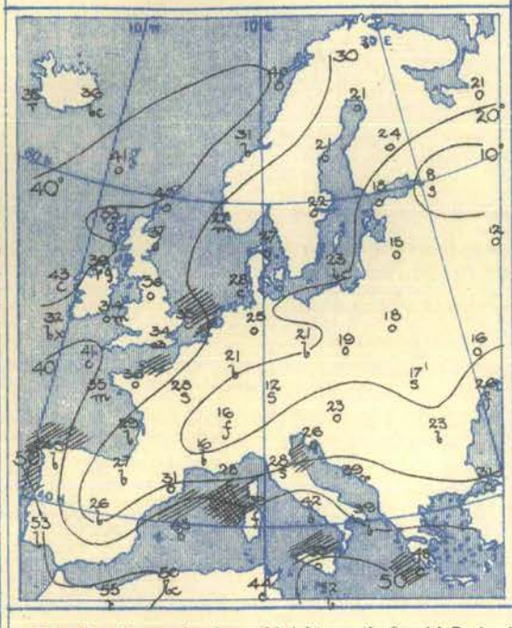
Temperature fallen generally, risen over central England. Morning readings –4° at Hermanstadt, 3° at Munich, and below 20° in several other localities over the mainland of Europe; below 30° in central England and at Birr Castle, no higher than 30° at Nice, and very little above it in Italy. About 50° at some stations in the far south of our area. Frost continuing all day over the greater portion of the Continent, and thermometer only touching 34° at Nice and Constantinople. Maxima between 35° and 40° over England, and above 60° in various parts of the Spanish Peninsula and Algeria.

Wind in morning anticyclonic except over the Mediterranean and Iceland. Easterly current high at Belfort and Trieste, but light or moderate over the central countries and England. A fresh breeze from the South-Westward prevailing in Iceland. No change of importance later in day.

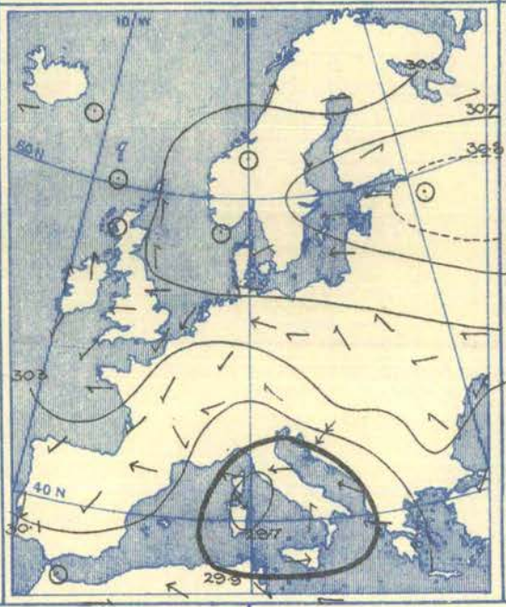
Barometer in morning above 30·8 ins. over central Russia, and high over nearly the whole of the Continent. Below 30·0 ins. in the north-east of Iceland, and below 29·8 ins. in a depression over Sardinia and its vicinity. Latter system moving eastwards during day and barometer rising decidedly in Iceland. Very little change taking place in the general distribution of pressure; a slight fall occurring in Denmark and North Germany.

Thursday, 25th February, 1909.

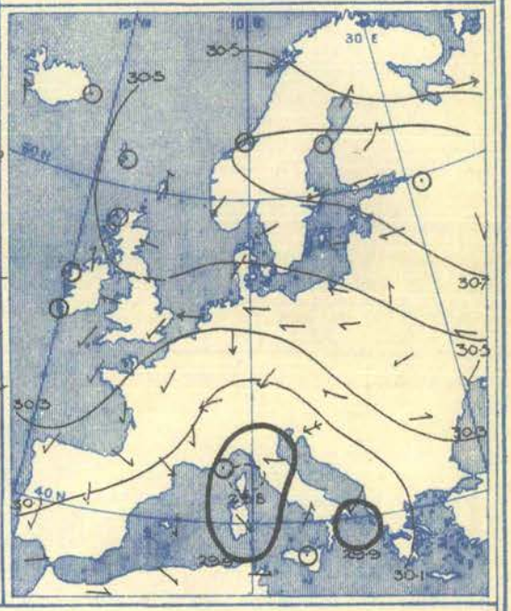
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Spanish Peninsula and in some other districts in the far south, but overcast generally, with rain in the extreme north-west of these Islands, as well as at Nemours and Lesina, and snow in northern Italy and in places here and there over a large portion of the Continent. A little snow later in the south-east and east of England, and also in the west and south-west of France and in northern Italy. Some rain in the north of Spain and rather heavy falls in Algeria; a thunderstorm occurring at Algiers.

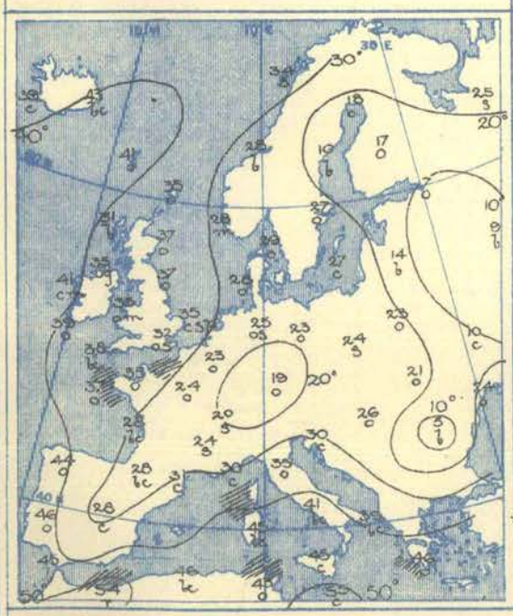
Temperature changed rather irregularly. Readings in morning below 32° over most of the Continent and in some parts of Britain, below 20° in some regions, and as low as 8° at St. Petersburg. Above 50° at Lisbon and at some stations in the south of the Mediterranean. Maxima during day below 35° in some parts of England, and below 32° in the east of France and nearly the whole of central Europe. Thermometer only touching 32° at Cape Sicié, 36° at Leghorn, and 37° at Nice, but rising to about 60° in the south of Spain and on the coast of Algeria.

Wind in morning anticyclonic in all the more northern regions, but a large cyclonic circulation prevailing over the Mediterranean and the regions immediately surrounding. Easterly current blowing a gale at Trieste, and that from North-West at Sanguinaire equally strong. Fresh or strong breezes reported from some other southern stations, but little force elsewhere. No important change later.

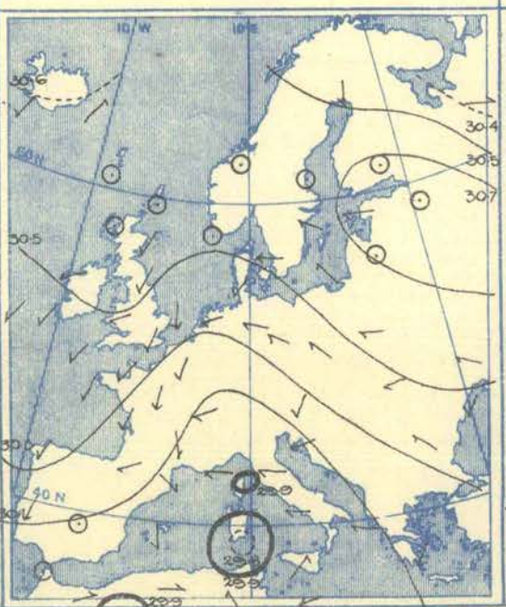
Barometer in morning still as high as 30·8 ins. in central Russia, and relatively high over all the northern countries, as well as in Iceland. Below 29·7 ins. in a depression having its centre over Corsica and its neighbourhood. Gradients near the barometric minimum irregular, steep in some places, slight in others. No important modification taking place in the general distribution of pressure later in day. Northern anticyclone tending to extend westwards, and barometer rising slowly in Iceland.

Friday, 26th February, 1909.

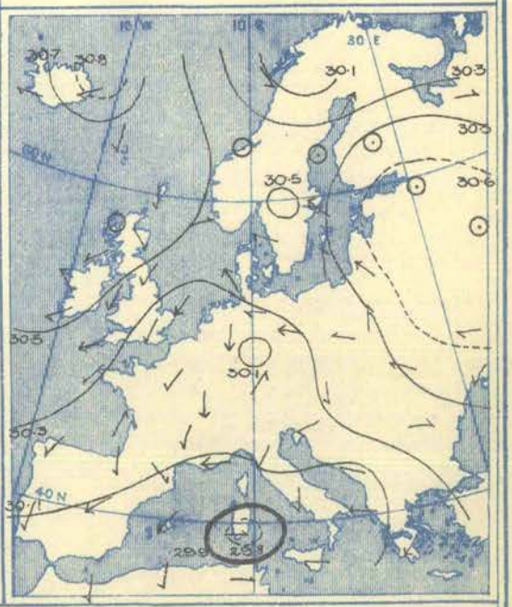
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning bright in some Russian localities, and also at Hernösand and Christiansund, very cloudy or entirely overcast over our area generally. Snow falling at Archangel, Bodö, the south-east of England, various parts of France and Germany, and also at Trieste and Bilbao, and rain at Roche's Point and Nemours. Slight snow later in many parts of this country and France, as well as in some places in central and northern Europe, and heavy rain on the shores of the Adriatic; nearly 1·5 in. at Brindisi. Some rain and hail occurring in Algeria.

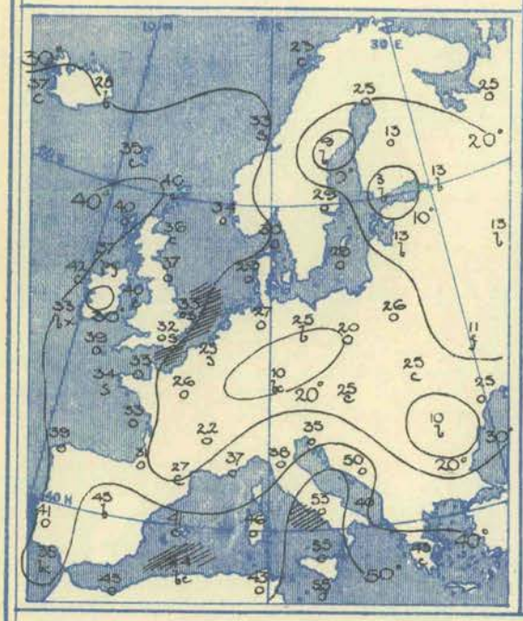
Temperature showing no decided change. Morning readings about 32° in central England, many degrees below it over the major portion of the Continent, and only 30° at Nice. Above 40° on the north-west coast of Ireland and on the west and south coasts of the Peninsula, and above 50° at Malta. Maxima during day no higher than 35° in several parts of England and France, and below 32° in the east of the latter country and over nearly the whole of central Europe, as well as at Turin. Thermometer rising to about 60° in Algeria and at Malta, but only touching 50° at Athens.

Wind in morning continuing anticyclonic over the most northern countries, and the whole of Russia, but cyclonic over the Mediterranean, central Europe, and England. Little force generally, but North-Easterly current high at Trieste. Little change later.

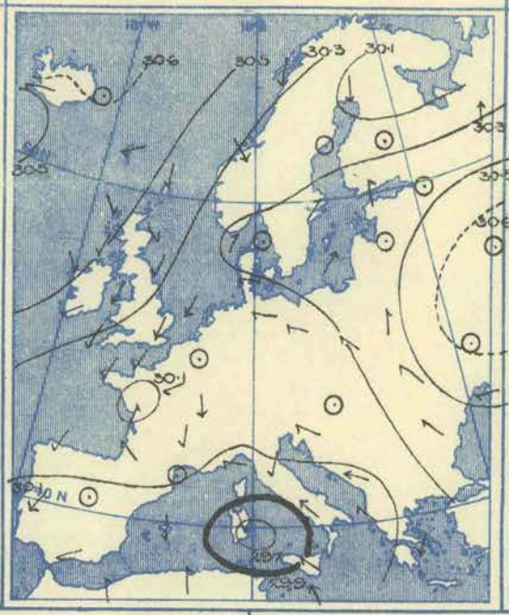
Barometer in morning ranging from above 30·7 ins. in central Russia and southern Finland, and above 30·6 ins. in the north of Iceland to below 29·3 ins. in a large depression having its minimum over Sardinia and an extension northwards to Holland and the North Sea. Pressure continuing to rise in Iceland and becoming highest in that region. A very brisk fall taking place in the north of Norway, but little change occurring in the general distribution elsewhere. Barometer rising in Ireland and falling in England and the nearer parts of the Continent.

Saturday, 27th February, 1909.

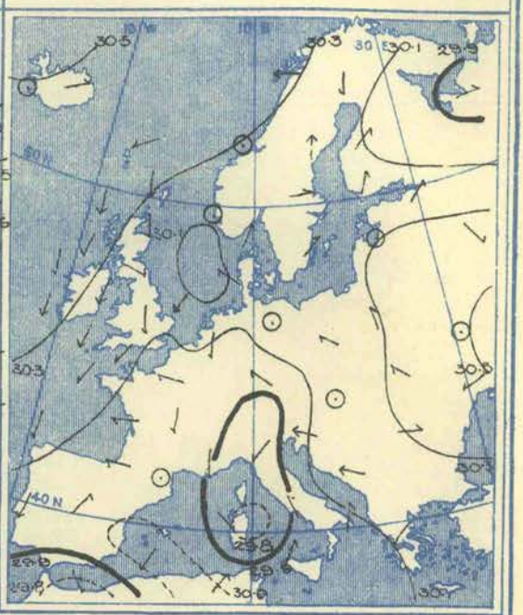
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over many parts of Russia and the Spanish Peninsula, and in a few isolated localities elsewhere, but overcast generally, with snow at Christiansund, in the south of England and the nearer regions of the Continent, and also at Bilbao and Turin. Rain falling at Rome and Pesaro. Snow falling in most parts of Great Britain later, but not in large quantities, and also in various localities on the Continent. Heavy rain in Italy and its neighbouring islands, and as much as 3·3 ins. at Corunna.

Temperature showing little change. Morning readings ranging from above 50° in the south of Italy and the adjacent islands to below 40° on the Riviera and the north coast of Spain, and to below 32° over most of the mainland of the Continent and in central Ireland. Lowest values 10° at Hermanstadt and 5° at Kharkoff. Maxima during day very little above 32° in some parts of England, and below it over a large portion of central Europe, but above 50° on many shores of the Mediterranean, and about 60° in Algeria.

Wind in morning showing a well defined cyclonic circulation of light to fresh breezes over the Mediterranean, and a light anticyclonic movement over Russia. A moderate to fresh or strong Northerly to North-Easterly wind prevailing over these Islands, and a light cyclonic movement over north-western France. A feeble cyclonic circulation setting in by evening over the upper portion of the North Sea, but little other change.

Barometer in morning above 30·6 ins. in a large anticyclone over Russia and very little lower over Iceland. Decreasing to below 30·1 ins. in a shallow depression over Brittany, and to below 29·7 ins. in a more important system centred near the south of Sardinia. Barometer falling slowly during day in almost all parts of our area, and a slight depression developing over the North Sea.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1909.												
1	Feb. 20th, 2.43 p.m. to 3.23 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	80° 60% 180°, 9	79·5° 60% 175°, 13	79° 60% 175°, 14	77·5° 60% 200°, 17				78·5° 30% 195°, 17	1,330	Kites broke away and recovered later. Temp. was 79° at 1,250 metres. Fine and bright. Almost cloudless.
2	Feb. 21st, 10.0 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	79° 80% 120°, 5	78° 70% 130°, 11	80° 50% 150°, 14	77° 40% 160, 15				75° 40% 160°, 15	1,350	Cloudless all day.
3	Feb. 22nd, 9.25 a.m. to 11.21 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	78° 54% 175°, 5	78·3° 47% 185°, 8	78·5° 43% 190°, 10					77·5° 30% 200°, 11	940	Very fine and bright. Moderate breeze at ground level early in morning, almost calm in afternoon.
4	Feb. 23rd, 3.26 p.m. to 4.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	80° 62% 65°, 4	79·5° 60% 55°, 4	79·5° 60% 50°, 4	77° 60% 35°, 3				74·5° 40% 50°, 3	1,360	Observations by captive balloon. Nearly calm in morning. Light breeze in late afternoon.
5	Feb. 24th, 12.10 p.m. to 3.0 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	75·5° 67% 145°, 6	74·7° 65% 140°, 9	74·3° 65% 140°, 10	71·5° 45% 155°, 12				71° 40% 155°, ?	1,070	Fine and bright. Winds very variable, but ground wind on the whole backing from 80° to 90°.
6	Feb. 25th, 10.15 a.m. to 12.20 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	73° 90% 30°, 6	72° 95% 30°, 11	68° 100% 40°, 18	63° 100% 50°, 18				65° 100% 50°, 18	1,050	Clouds, 800 metres. Snow squalls. Top of wire came in coated with ice.
7	Feb. 25th, 10.29 a.m. to 1.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	72° 75% 45°, 6	71·5° 78% 50°, 11	71° 78% 50°, 12	68·5° 83% 55°, 15				74° 50% 55°, 13	1,250	Fair and dull. Clouds at 650 m. Large temp. inversion at 1,150 m. Flaky deposit on wire of 8 mms. diameter.
8	Feb. 25th, 11.5 a.m. to 11.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	74·5° 80% 10°, 6	74° 85% 10°, 11	70·5° 95% 20°, 14	69° 100% 30°, 16				67·5° 100% 35°, 17	1,050	Overcast. Very gusty surface wind. Clouds at 650 m.
9	Feb. 26th, 9.55 a.m. to 2.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	73° 80% 5°, 8	71·5° 85% 15°, 10	70·5° 90% 15°, 11	67° 95% 23°, 15				64° 100% 35°, 19·5	1,440	Fair, overcast and cold, with showers of snow during flight. Clouds at 740 m. Uniform temp. gradient. Wind vels. are given for ascent only, as there was deposit of snow on anemometer thread during descent.
10	Feb. 26th, 11.10 a.m. to 11.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	73° 80% 350°, 5	72·5° 85% 0°, 9	71° 100% 10°, 12	69° 100% 20°, ?				68° 100% 20°, ?	1,200	Overcast, light snow. Clouds at 500 m. Kite would not rise owing to weight of ice and snow. 1 kg. of ice (2·2 lb.) was taken from 130 m. of wire near the kite.
11	Feb. 26th, 4.51 p.m. to 5.40 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	73° 72% 22°, 9	72° 78% 22°, 15	71·5° 74% 22°, 17	68° 73% 22°, 21				67·5° 72% 22°, 22	1,050	Cloud level not reached. Humidity very variable.
12	Feb. 27th, 8.30 a.m. to 9.45 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind ..	72° 85% 15°, 5	70·5° 87% 20°, 11	70° 90% 20°, 14	66° 95% 15°, 20				65° 95% 10°, 21	1,100	Fair, dull and cold. Clouds not quite reached. Large temp. gradient.
13	Feb. 27th, 10.2 a.m. to 12.5 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	73° 100% 10°, 5	71° 100% 20°, 10	69° 100% 30°, 15	67° 95% 40°, ?				65° 90% 40°, ?	1,350	Overcast, nimbus 450 m. Last 1,100 m. of wire came in thickly coated with ice. Kite loaded with ice and snow.

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AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* } No. 9. NINTH WEEK, SUNDAY FEBRUARY 28TH TO SATURDAY MARCH 6TH, 1909. { *Price 6d. Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather.—The general condition was very wintry throughout the whole Kingdom. Snow fell in considerable or large amounts in almost all localities, the heaviest falls occurring either about the middle or at the end of the week.

Temperature was much below the average, the deficit amounting to nearly 10° in the Midland Counties and England S.W., and to more than 10° in England S.E. The highest of the maxima were registered on rather irregular dates, but in most places either very early or quite late in the period. They ranged from 49° in the English Channel to 41° in England E. and Scotland N. During the greater part of the week the thermometer remained below 40° over the Kingdom generally; on some occasions in Central and South-Eastern England it remained at about 32° or below it all day. The lowest of the minima were recorded, with some exceptions, between the 3rd and 5th. In England S.E. the thermometer descended to zero (at Marlborough on the 3rd), and in Scotland E. to 1° (at West Linton on the 5th,) while readings as low as 7° and 8°, respectively, were recorded in England, N.W. and the Midland Counties. From thermometers on the grass the lowest readings reported were – 5° at West Linton (on the 5th), – 4° at Llangammarch Wells (on the 4th and 5th), 3° at Canterbury and Balmoral, 5° at Hereford, 6° at Aspatria, 7° at Kew, and 8° at Cardiff.

Mean Temperature of the Sea.—At nearly all stations except Cleggan the water was colder than during the corresponding week of last year, the greatest difference being about 4° at Margate and Eastbourne. The mean values for the week ranged from 45°·9 at Plymouth, and 45°·2 at Cleggan, to about 39° at Kirkwall, Pennan Bay and Burnmouth, to 36°·1 at Eastbourne, and to 35°·6 at Margate.

Rainfall (rain or snow) exceeded the normal in all districts except Scotland N. and W., and Ireland S., the excess being large in nearly all parts of England. At some places in the S.E. of England the snow measured on Thursday morning yielded more than an inch of water, and at Dungeness as much as 1·9 in. More than an inch was also measured over a large part of the Midlands and Northern England as the result of the snowfall on Saturday, the largest quantity reported being 1·3 in. at Cheadle and Fulbeck. Some places further South experienced a large amount of rain and snow; at Shaftesbury the gauge yielded 1·64 in. At Buxton and Huddersfield the depth of snow after the fall of Saturday averaged 10 in., while at Ulcombe, Kent, on Friday morning, the depth on the level was 12 to 15 in.

Bright Sunshine was generally rather above the average in the Western districts and below it in the East. The percentage of possible duration ranged from 38 in Ireland N. and 34 in the English Channel to 19 in England E. and 18 in the Midland Counties.

Barometer and Wind.—The general distribution of pressure favoured winds from some point between North and East. In addition to a large depression of irregular form that extended over this country from France early in the week, a well-defined system moved Southwards over Great Britain and the North Sea during Tuesday and Wednesday and finally disappeared over the Netherlands. On Friday a band of relatively low pressure extended from the Atlantic across the Northern parts of these Islands and the North Sea, and the wind over England became West for a time, but on Saturday the advance of a deep disturbance to our South-West coasts from the Atlantic drew the wind into some point between North-East and South-East. The depression subsequently travelled slowly North-Eastwards to the Midlands, and the wind rose to a gale from the Eastward on our North-East coast.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 68.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1 Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient
	Rainfall ...	Light	Heavy	Very heavy	Heavy	Very heavy	Very heavy	Moderate	Moderate	Very heavy	Moderate	Light	Heavy
	Sunshine ...	Abundant	Moderate	Moderate	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1908–9. 14 weeks from Nov. 29th, 1908.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

PAST SEASONS.

WINTER, 1907–8. Dec. 1st–Feb. 29th. 13 weeks.	Warmth ...	4 * 2	4 * 1	3 * 4	4 * 3	4 * 3	5 * 4	5 * 3	4 * 4	3 * 3	5 * 3	5 * 3	4 * 2
	Rainfall ...	4 * 4	6 * 5	4 * 6	5 * 5	4 * 8	3 * 7	7 * 3	8 * 4	3 * 4	6 * 3	2 * 3	4 * 5
	Sunshine ...	4 * 3	5 * 1	3 * 2	5 * 5	3 * 4	6 * 2	1 * 3	6 * 2	3 * 3	3 * 4	3 * 3	2 * 3
SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

NINTH WEEK—February 28th to March 6th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Rainfall. Number of Rain-days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	41	13	36·8	24·0	30·2	− 7·7	0	− 6	83	+ 47	5	0	0·44	−0·47	21	+ 4	29	+ 5
Eastern																		
1. SCOTLAND, EAST	44	1	37·3	23·6	30·2	− 7·1	0	− 7	83	+ 42	4	0	0·80	+0·29	18	− 2	25	− 2
2. ENGLAND, N.E.	43	14	37·2	26·3	31·6	− 7·1	0	− 10	73	+ 40	5	+ 1	1·07	+0·72	19	− 1	26	− 2
3. ENGLAND, EAST	41	12	36·5	25·4	30·8	− 8·0	0	− 13	78	+ 41	5	0	0·74	+0·39	14	− 7	19	− 9
4. MIDLAND COUNTIES	43	8	36·4	22·2	29·1	− 9·7	0	− 14	90	+ 54	4	0	1·30	+0·88	14	− 5	18	− 7
5. ENGLAND, S.E.	44	0	36·5	23·3	29·7	− 10·3	0	− 15	86	+ 57	5	+ 1	1·50	+1·04	17	− 4	23	− 6
Western																		
6. SCOTLAND, WEST	45	11	38·9	25·7	32·1	− 7·0	0	− 9	69	+ 39	3	− 1	0·44	−0·38	20	+ 2	27	+ 2
7. ENGLAND, N.W.	42	10	36·7	25·8	31·1	− 8·4	0	− 11	76	+ 47	5	+ 2	0·68	+0·13	22	+ 2	30	+ 3
8. ENGLAND, S.W.	45	7	38·0	25·0	31·3	− 9·7	0	− 17	75	+ 51	5	+ 2	1·35	+0·65	20	− 2	27	− 3
9. IRELAND, NORTH	45	14	39·3	29·2	34·1	− 6·4	0	− 15	55	+ 30	6	+ 1	0·72	+0·07	28	+ 9	38	+12
10. IRELAND, SOUTH	46	15	40·1	28·0	33·9	− 8·3	0	− 21	57	+ 38	5	+ 1	0·33	−0·41	25	+ 3	33	+ 4
11. ENGLISH CHANNEL	49	28	42·4	31·8	36·9	− 6·9	1	− 22	35	+ 26	6	+ 2	1·15	+0·54	26	− 1	34	− 2

THE SEASON (**Winter**). Aggregates, &c., for the Period of 14 Weeks, November 29th, 1908, to March 6th, 1909.

0. SCOTLAND, NORTH	56	13	*	*	*	*	115	+ 15	405	− 84	73	+ 1	15·91	−1·44	117	+ 7	16	+ 1
Eastern																		
1. SCOTLAND, EAST	58	1	*	*	*	*	95	− 8	562	− 15	49	− 7	6·86	−1·37	161	+ 3	21	0
2. ENGLAND, N.E...	56	11	*	*	*	*	68	− 53	570	+107	45	− 6	4·37	−1·46	174	+ 6	22	+ 1
3. ENGLAND, EAST	58	7	*	*	*	*	81	− 56	541	+ 17	50	− 4	4·20	−1·36	191	+ 3	23	0
4. MIDLAND COUNTIES.. ..	57	3	*	*	*	*	98	− 57	601	+ 76	47	− 5	4·96	−1·89	168	+ 8	20	+ 1
5. ENGLAND, S.E.	56	0	*	*	*	*	148	− 45	471	+ 79	47	− 5	5·00	−1·30	222	+ 38	26	+ 5
Western																		
6. SCOTLAND, WEST	56	11	*	*	*	*	122	− 23	378	− 11	61	− 3	‖ 13·81	−0·97	143	+ 4	18	0
7. ENGLAND, N.W...	57	10	*	*	*	*	120	− 33	435	+ 55	54	− 3	7·69	−1·67	203	+ 55	25	+ 7
8. ENGLAND, SW	57	7	*	*	*	*	199	− 48	337	+ 45	54	− 5	8·42	−3·56	232	+ 46	28	+ 5
9. IRELAND, NORTH	55	14	*	*	*	*	227	+ 35	252	− 77	69	+ 2	10·60	−0·17	154	− 6	19	− 1
10. IRELAND, SOUTH	59	15	*	*	*	*	333	+ 36	226	− 24	65	+ 3	9·40	−3·32	180	− 8	22	− 1
11. ENGLISH CHANNEL	57	25	*	*	*	*	375	+ 1	134	+ 27	54	−12	8·81	−1·40	278	+ 45	32	+ 5

THE YEAR.—Aggregates, &c., for the Period of 9 Weeks, January 3rd to March 6th, 1909.

0. SCOTLAND, NORTH	56	13	*	*	*	*	44	− 16	309	− 21	45	− 1	8·92	−2·04	97	+ 9	19	+ 2
Eastern																		
1. SCOTLAND, EAST	58	1	*	*	*	*	39	− 29	394	+ 17	31	− 4	4·85	−0·14	123	− 1	24	0
2. ENGLAND, N.E.	56	14	*	*	*	*	35	− 45	395	+ 94	26	− 7	2·87	−0·52	146	+ 20	27	+ 4
3. ENGLAND, EAST	58	12	*	*	*	*	35	− 55	405	+ 66	30	− 4	2·25	−1·12	171	+ 31	31	+ 6
4. MIDLAND COUNTIES.. ..	57	8	*	*	*	*	43	− 61	445	+109	25	− 8	2·93	−1·25	144	+ 24	26	+ 4
5. ENGLAND, S.E...	56	0	*	*	*	*	64	− 54	369	+110	25	− 7	2·95	−1·50	188	+ 54	33	+10
Western																		
6. SCOTLAND, WEST	55	11	*	*	*	*	54	− 35	275	+ 13	35	− 5	‖ 8·09	−0·76	114	+ 8	21	+ 1
7. ENGLAND, N.W.	57	10	*	*	*	*	58	− 36	324	+ 73	31	− 5	4·70	−0·97	161	+ 48	29	+ 9
8. ENGLAND, S.W.	54	7	*	*	*	*	84	− 67	294	+ 95	28	− 8	3·91	−3·09	189	+ 53	33	+ 9
9 IRELAND, NORTH	55	14	*	*	*	*	121	− 4	177	− 40	43	+ 1	6·25	−0·28	109	− 9	20	− 2
10. IRELAND, SOUTH	59	15	*	*	*	*	168	− 18	177	+ 12	37	− 1	4·85	−2·70	137	+ 1	25	0
11. ENGLISH CHANNEL	54	25	*	*	*	*	175	− 44	125	+ 46	30	−11	4·26	−1·65	215	+ 47	37	+ 8

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
‖ Corresponding figures for Report No. 528 altered owing to further information.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℜ is supplied by the Royal Meteorological Society, and that for Stations marked 𝕊 is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts	Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands	*p Balta Sound* S	*39*	*4th*	*37*	*4th*	*36·5*	*29·0*	*32·6*	—	*0*	*66*	7	*0·57*	—	*26·0*	—	*57*	—	*Balta Sound.*
	a Sumburgh Head	37	28th, 3rd	25	2nd	35·9	28·4	32·0	- 6·3	0	70	6	0·24	- 0·48	7·9	- 9·8	11	-14	Deerness.
	a Stornoway	41	5th	19	5th	37·7	26·0	31·7	- 7·4	0	72	6	0·93	- 0·06	32·7	+14·1	46	+20	Stornoway.
	a Castlebay, Barra Isd.	*41*	*28th, 1st*	*28*	*2nd*	*39·1*	*31·7*	*35·3*	*- 6·3*	*0*	*47*	*6*	*0·31*	—	*33·6*	—	*47*	—	*Castlebay.*
	a Wick	41	5th	15	5th	37·9	23·9	30·7	- 7·5	0	79	6	0·75	+ 0·23	*	*	*	*	*
0. SCOTLAND, N. — b, Mainland	*p* Strathpeffer	39	28th, 1st	15	5th, 6th	36·9	23·7	30·1	- 7·7	0	83	5	0·40	- 0·23	25·9	+ 8·2	36	+11	Strathpeffer.
	p Glencarron	38	28th, 1st	15	3rd, 5th	35·0	20·6	27·6	- 9·5	0	101	2	0·34	- 1·43	*	*	*	*	*
	p Fort Augustus	41	5th	13	5th	36·7	22·3	29·3	- 9·0	0	89	6	0·34	- 0·61	15·9	+ 2·4	22	+ 3	Fort Augustus.
	p Fort William	41	5th	19	5th	37·6	23·4	30·3	- 9·1	0	82	1	0·06	- 1·61	*	*	*	*	*
1. SCOTLAND, E.	*p* Gordon Castle S	40	5th	14	6th	37·6	23·9	30·6	- 8·3	0	89	4	0·96	+ 0·44	*23·5*	—	*33*	—	*Gordon Castle.*
	a Nairn	38	28th, 1st	7	6th	35·7	23·1	29·2	- 9·1	0	90	5	1·04	+ 0·59	22·0	—	31	—	Nairn.
	a Aberdeen	40	28th	23	4th, 6th	36·9	27·3	32·0	- 6·7	0	70	6	0·49	- 0·04	12·2	- 9·4	17	-13	Aberdeen.
	a Balmoral S	44	5th	5	6th	40·6	19·3	29·6	- 4·9	0	87	4	1·07	+ 0·43	15·3	—	21	—	Crathes S.
	p Crieff S	44	5th	21	6th	38·8	20·4	32·4	- 6·3	0	67	2	0·62	- 0·15	18·2	—	25	—	Balruddery
	a Leith S	40	5th	20	6th	38·0	27·4	32·5	- 7·4	0	67	5	0·96	+ 0·61	17·9	+ 0·9	25	+ 1	Edinburgh.
	a West Linton S	37	5th	1	5th	33·5	15·3	24·1	-12·9	0	125	5	0·75	—	*22·6*	—	*31*	—	*West Linton.*
	p Marchmont S	39	5th	20	5th, 6th	37·0	26·0	31·3	- 6·4	0	75	4	0·53	0·00	21·0	+ 1·0	29	+ 1	Marchmont.
2. ENGLAND, N.E. — a, North	*a* Alnwick Castle	40	28th	14	6th	36·9	24·9	30·7	- 8·1	0	79	5	0·73	+ 0·21	25·0	—	34	—	Cockle Park.
	a Shields	43	1st	21	5th, 6th	38·9	26·4	32·5	- 7·1	0	67	6	1·20	+ 0·86	*18·5*	+ *2·8*	*25*	+ 4	*Newcastle.*
	p Durham M	39	28th, 1st	18	6th	36·9	25·5	31·0	- 7·4	0	77	5	1·08	+ 0·73	24·4	+ 4·4	33	+ 6	Durham.
	p Rounton M	37	28, 1 5, 6	19	4th	35·9	24·5	30·0	- 8·2	0	84	5	0·76	+ 0·38	*	*	*	*	*
	p Scarborough M	42	5th	26	5th, 6th	39·3	28·0	33·5	- 6·4	0	60	7	1·02	+ 0·59	12·4	—	17	—	Scarborough.
	p York	41	5th	20	4th	37·0	25·9	31·3	- 8·2	0	75	5	1·35	+ 0·97	15·6	- 2·4	21	- 3	York.
2. ENGLAND, N.E. — b, South	*a* Spurn Head	39	1st, 5th	29	5th, 6th	36·9	30·4	33·6	- 6·0	0	59	4	0·86	+ 0·56	*	*	*	*	*
	a Lincoln														18·6	—	25	—	Skegness.
	a Fulbeck	38	2nd, 5th	19	5th	35·4	25·1	30·1	- 9·6	0	83	4	1·53	+ 0·16	18·5	—	25	—	Rauceby.
															9·3	—	*13*	—	*Lowestoft.*
	p Cromer	40	5th	24	5th	37·0	26·2	31·4	- 7·1	0	74	3	0·64	—	16·6	—	22	—	Cromer.
	p Hillington M	40	5th	17	5th	35·9	24·4	30·0	- 9·1	0	84	4	0·98	+ 0·56	15·8	- 5·5	21	- 7	Hillington.
3. ENGLAND, E. — a, North	*a* Yarmouth	38	5th, 6th	21	5th	36·3	27·7	31·9	- 6·9	0	71	4	0·39	+ 0·05	15·5	—	21	—	Yarmouth.
	a Norwich	39	5th, 6th	20	5th	37·3	26·7	31·8	- 7·2	0	71	6	0·60	—	*	*	*	*	*
	p Geldeston	40	5th	19	5th	37·2	25·9	31·4	- 8·2	0	74	6	0·58	+ 0·24	10·7	-11·8	15	-16	Geldeston.
	p Cambridge	40	5th	12	5th	36·5	23·3	29·7	-10·1	0	86	5	0·96	+ 0·64	17·8	- 4·7	24	- 6	Cambridge.
3. ENGLAND, E. — b, South	*a Felixstowe*	*40*	*6th*	*20*	*5th*	*36·0*	*25·4*	*30·5*	*- 9·2*	*0*	*81*	*5*	*0·90*	—	*17·8*	—	*24*	—	*Felixstowe.*
	a Clacton-on-Sea	39	5th, 6th	19	5th	36·3	24·7	30·3	- 9·2	0	82	5	0·52	—	14·5	—	20	—	Clacton.
	a Rothamsted	41	5th	16	5th	36·3	24·8	30·4	- 8·6	0	81	5	0·90	+ 0·47	17·3	- 3·7	23	- 5	Rothamsted.
	a Shoeburyness	*40*	*6th*	*23*	*5th*	*34·3*	*24·9*	*29·5*	*-10·9*	*0*	*88*	*6*	*1·13*	+ *0·85*	*16·0*	—	*22*	—	*Southend.*
	p Tottenham	38	5th, 6th	13	5th	35·3	25·0	30·0	-10·2	0	84	5	1·09	—	7·2	—	10	—	Tottenham.
4. MIDLAND COUNTIES. — a, East	*a* Harrogate	39	5th	20	4th	35·5	24·2	29·7	- 8·3	0	86	6	1·47	+ 0·97	19·3	—	26	—	Harrogate.
	a Bawtry	41	2nd, 5th	23	4th, 6th	37·4	25·4	31·2	- 8·4	0	76	3	1·19	+ 0·83	17·1	- 0·7	23	- 1	Worksop.
	p Buxton M	*38*	*5th*	*15*	*1st, 4th*	*33·4*	*21·1*	*27·1*	*- 9·3*	*0*	*104*	*4*	*1·34*	+ *0·42*	*20·4*	—	*28*	—	*Buxton.*
	a Nottingham	37	28, 2, 5th	14	5th	35·3	24·0	29·5	- 9·9	0	91	4	1·59	+ 1·19	8·8	—	12	—	Nottingham.
	p Birmingham, Edgbsn	38	2nd	19	3rd	34·0	24·3	29·3	-10·2	0	84	4	1·24	—	*	*	*	*	*
	a Raunds M	43	5th	14	5th	36·9	23·4	30·0	- 9·4	0	82	4	0·99	+ 0·61	15·2	- 5·2	21	- 7	Oxford.
4. MIDLAND COUNTIES. — b, West	*a* Oxford	40	2, 5, 6th	19	5th	37·1	23·9	30·3	-10·0	0	92	5	1·84	+ 1·34	9·4	—	13	—	Sheffield.
	a Cheadle M	39	5th	16	4th	35·5	22·6	28·9	- 9·5	0	94	6	1·19	—	*	*	*	*	*
	p Shrewsbury	41	28th	10	3rd	39·5	18·4	28·6	-11·9	0	102	4	1·02	+ 0·56	*	*	*	*	*
	a Hereford M	40	2nd	9	4th	36·7	18·9	27·5	-12·7	0	104	4	1·19	+ 0·70	14·8	- 6·8	20	- 9	Cirencester.
	a Cirencester	38	5th	8	3rd	35·1	19·7	27·2	-11·8	0	97	4	1·33	+ 0·83	13·8	—	19	—	Bath.
	a Bath	41	6th	13	5th	37·4	19·3	28·1	-12·6	0					*17·4*	—	*24*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	39	6th	17	5th	35·8	26·3	30·9	- 9·5	0	78	6	1·07	+ 0·69	10·7	- 7·2	15	-10	Kew.
	a Marlborough	39	6th	0	3rd	35·8	15·6	25·4	-13·8	0	116	5	2·06	+ 1·50	14·1	- 4·3	19	- 6	Marlborough.
	a Margate	40	6th	21	5th	36·0	26·4	31·1	- 9·2	0	76	3	0·74	+ 0·38	14·3	- 7·6	19	-10	Margate.
	a Wisley, Surrey	40	6th	14	2nd	35·4	21·7	28·4	-12·3	0	95	6	1·54	—	?12·3	—	17	—	Wisley.
	a Swarraton M	41	5th, 6th	3	3rd	36·4	17·6	26·7	-12·5	0	107	5	1·63	+ 1·10	24·0	—	32	—	Worthing.
5. ENGLAND, S.E.	*a* Tunbridge Wells M																		Tunbridge Wells.
	a Dungeness	40	6th	12	5th	35·3	20·3	27·6	-12·7	0	101	6	2·88	+ 2·51	15·9	—	22	—	Littlestone.
	p Hastings	41	6th	24	1st	36·1	27·6	31·7	- 8·9	0	72	6	1·53	+ 1·08	*17·7*	- *6·8*	*24*	- *9*	*Hastings.*
	p Southampton	43	6th	11	3rd	37·9	25·8	31·7	-10·5	0	72	5	1·32	+ 0·82	17·6	- 5·4	24	- 7	Southampton.
	a Ventnor	44	6th	25	3rd	39·4	28·3	33·7	- 8·6	0	58	4	0·76	+ 0·27	23·5	- 1·5	31	- 2	Ventnor.
															22·2	- 1·2	30	- 2	Eastbourne.
LONDON	*a Westminster*	*41*	*6th*	*18*	*5th*	*36·6*	*24·6*	*30·4*	*-10·1*	*0*	*81*	*6*	*1·31*	+ *0·94*	*5·2*	- *6·2*	*7*	- *8*	*Westminster.*
	a Greenwich	*43*	*5th*	*14*	*5th*	*37·1*	*23·5*	*30·1*	*-10·7*	*0*	*83*	*6*	*1·35*	+ *0·96*	*16·2*	- *1·3*	*22*	- *2*	*Greenwich.*
6. — a, SCOTLAND. W.	*p* Laudale	44	1st	19	3rd	39·8	24·3	31·8	- 8·4	0	71	4	*0·40*	- *1·15*	*	*	*	*	*
	a Poltalloch S	42	3rd	22	3rd	38·6	25·3	31·8	- 7·4	0	71	2	0·23	- 0·63	*	*	*	*	*
	p Glasgow	40	28th	22	3rd	37·9	27·8	32·7	- 6·6	0	65	2	0·54	- 0·08	11·3	- 2·7	16	- 4	Glasgow.
	p Rothesay S	42	28th, 1st	25	3rd, 5th	40·1	29·1	34·4	- 5·7	0	53	1	0·43	- 0·39	*	*	*	*	*
	a Kilmarnock	40	28, 1, 6th	11	3rd	38·2	22·8	30·3	- 8·9	0	82	2	0·28	—	*16·2*	—	*22*	—	*Kilmarnock.*
	a Colmonell	40	28, 3, 4th	17	3rd	38·7	24·1	31·2	- 8·0	0	76	4	0·53	- 0·31	*	*	*	*	*
	p Dumfries	44	4th	15	5th	39·3	24·4	31·6	- 8·0	0	73	4	0·44	- 0·26	*	*	*	*	*
	p Cally, Gatehouse S	45	5th	19	3rd	39·8	25·6	32·5	- 6·7	0	97	4	0·50	- 0·45	*	*	*	*	*
6. — b, ISLE OF MAN	*p* Douglas	40	28th, 5th	24	5th	37·6	28·3	32·8	- 7·7	0	64	5	0·59	- 0·15	27·6	+ 5·2	38	+7	Douglas.
															19·9	—	27	—	Hoylake.
7. — a, ENGLAND, N.W.	*p* Aspatria	42	5th	13	3rd	36·8	21·8	29·1	- 9·3	0	90	5	0·80	+ 0·20	25·4	—	35	—	Aspatria.
	p Newton Rigg	42	5th	10	4th	36·5	21·5	28·8	- 8·6	0	92	3	0·41	- 0·26	17·8	- 1·4	24	- 2	Newton Rigg.
	p Stonyhurst	39	28th	20	4th	36·2	25·1	30·5	- 8·3	0	81	5	0·58	- 0·23	19·5	+ 1·1	27	+ 2	Stonyhurst.
	p Blackpool M	40	28th, 5th	17	4th	37·0	26·8	31·8	- 8·1	0	71	3	0·44	- 0·09	25·0	+ 5·8	34	+ 8	Blackpool.
	p M'nch'ster, Prestwich	38	5th	15	5th	35·0	24·2	29·4	- 9·8	0	88	4	0·74	+ 0·19	*6·6*	- *6·9*	*9*	-*10*	*Prestwich.*
	a Liverpool (Bidston)	39	28th	25	4th, 5th	36·1	28·4	32·1	- 8·6	0	69	6	0·77	+ 0·32	*21·1*	—	*29*	—	*Liverpool.*
7.	*a* Hawarden Bridge	40	5th	13	4th	35·2	24·3	29·6	-11·5	0	87	7	0·96	+ 0·69	*22·7*	+ *2·6*	*31*	+ *4*	*Southport.*
															22·3	—	*30*	—	*Rhyl.*
7. — b, NORTH WALES	*p* Llandudno M	41	28th, 5th	24	4th	38·5	29·1	33·7	- 8·2	0	58	7	0·56	+ 0·07	28·0	+ 2·3	31	+ 3	Llandudno.
	a Holyhead	41	28th	28	4th, 5th	38·4	31·1	34·6	- 7·3	0	52	6	0·88	+ 0·30	29·0	—	39	—	Aberdovey.
	p Bettws-y-Coed	40	5th	17	4th, 5th	37·7	26·1	31·7	- 9·5	0	72	7	0·61	—	14·4	—	20	—	Bettws-y-Coed.
															17·7	—	24	—	Aberystwyth.
8. — a, SOUTH WALES	*a* Llangammarch Wells	37	6th	7	4th	35·4	17·0	25·9	-12·7	0	113	5	0·70	—	13·5	—	18	—	Llangammarch Wells.
	a Pembroke	43	28th	26	5th	38·9	28·9	33·8	- 8·4	0	57	7	1·31	+ 0·72	16·8	- 6·5	23	- 9	Pembroke.
	a Cardiff	39	2nd	18	5th	36·3	25·1	30·5	-10·4	0	81	5	1·01	+ 0·31	*13·1*	—	*18*	—	*Cardiff.*
															24·1	- *0·3*	*33*	*0*	*Tenby.*
8. — b, ENGLAND, S.W.	*a* Clifton	40	6th	19	5th	36·8	22·8	29·6	-11·2	0	87	4	0·89	+ 0·35	*11·5*	—	*16*	—	*Clifton.*
	a Shaftesbury	41	6th	20	3rd	35·8	23·7	29·6	- 9·3	0	87	4	2·56	+ 2·01	*	*	*	*	*
	a Arlington	40	6th	17	5th	36·9	23·6	30·1	- 9·8	0	83	4	0·75	- 0·16	24·2	+ 0·1	32	0	Newquay.
	a Cullompton	43	5th, 6th	17	4th	39·4	21·0	29·9	-11·3	0	85	5	1·57	+ 0·94	16·6	- 4·9	22	- 7	Cullompton.
	a Portland Bill	44	6th	26	4th	38·9	28·4	33·5	- 8·6	0	60	4	1·31	—	*22·1*	—	*30*	—	*Weymouth.*
	p Plymouth	45	7th	25	4th, 5th	41·6	28·0	34·6	- 8·1	0	52	4	2·01	+ 1·38	24·1	+ 0·6	32	+ 1	Plymouth.
	p Falmouth	43	5th	29	1st, 2nd	40·4	31·2	35·7	- 7·7	0	44	5	1·36	+ 0·56	26·5	+ 0·9	35	+ 1	Falmouth.
															23·9	- *1·3*	*31*	- *3*	*Torquay.*
9. IRELAND, N. — a, West	*a* Malin Head	41	28th	28	6th	38·6	32·1	35·3	- 5·9	0	47	6	0·83	+ 0·31	*	*	*	*	*
	a Blacksod Point	45	28th, 6th	26	4th	41·3	31·3	36·2	- 6·6	0	41	7	1·12	+ 0·25	*	*	*	*	*
	p Markree Castle	43	28th	14	6th	38·2	24·2	31·0	- 9·6	0	77	6	0·53	- 0·21	29·2	+10·1	40	+14	Markree Castle.
9. IRELAND, N. — b, East	*p* Armagh	41	28, 1, 4th	22	4th	39·3	27·5	33·2	- 7·2	0	62	5	0·22	- 0·29	25·7	+ 7·0	35	+10	Armagh.
	a Donaghadee	42	28th	26	5th	39·1	30·9	34·9	- 6·3	0	50	5	0·90	+ 0·35	*	*	*	*	*
10. IRELAND, S. — a, East	*p* Dublin, City	42	28th	26	3, 4, 5th	38·9	29·4	34·0	- 8·7	0	56	3	0·43	0·02	26·0	+ 4·0	35	+ 5	Phœnix Park.
	a Kilkenny	40	28th	21	5th	38·1	26·9	32·3	- 9·0	0	68	3	0·14	- 0·44	*	*	*	*	*
	a Waterford	45	6th	25	5th	40·3	29·1	34·5	- 7·5	0	53	4	0·20	- 0·54	*	*	*	*	*
10. IRELAND, S. — b, West	*a* Birr Castle	41	6th	21	4th	38·7	24·0	31·1	- 9·7	0	76	4	0·11	- 0·41	19·7	- 0·3	27	0	Birr Castle.
	a Foynes	43	28th	25	6th	40·1	27·9	33·8	- 9·0	0	57	7	0·26	- 0·43	*	*	*	*	*
	a Cahir M	40	28th, 6th	15	5th	38·9	26·6	32·6	- 9·2	0	66	6	0·42	—	*	*	*	*	*
	a Killarney	46	6th	24	6th	42·6	27·1	34·6	- 8·2	2	51	7	0·32	- 0·84	*	*	*	*	*
	a Valencia	45	28th	27	5th	42·0	30·4	36·0	- 8·4	0	42	7	0·92	- 0·19	28·3	+ 6·3	38	+ 9	Valencia.
	a Roche's Point	43	4th	29	5th, 6th	41·3	31·0	36·0	- 7·4	0	42	6	0·18	- 0·57	24·8	—	34	—	Ballinacurra.
11. ENGLISH CHANNEL	*a* Scilly, St. Mary's	49	28th	30	28th	44·4	33·0	38·5	- 6·7	7	32	6	1·12	+ 0·52	30·0	+ 4·3	40	+ 6	Scilly.
	a Jersey, St. Aubins	48	6th	28	5th	41·3	29·7	35·3	- 8·2	0	47	7	1·36	+ 0·83	23·8	- 3·5	32	- 5	St. Heliers.
	a Guernsey	46	5th, 6th	31	5th	41·4	32·7	36·9	- 7·1	0	36	6	0·98	+ 0·36	22·6	- 4·1	30	- 6	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 21·6 hrs.* (- *1·9 hrs.*), *29 %* (- *3 %*); *Bournemouth, 20·6 hrs., 28 %*; *Bognor, 29·5 hrs., 39 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	— — ..				
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	39·0
	Crathes	6	11	35·6	38·0
	Balmoral	7	3	—	—
	West Linton ..	7	- 5	—	—
	Marchmont ..	5	14	34·7	—
2.	Cockle Park	7	12	34·4	38·0
	Durham ..	6	21	—	—
	York	—	—	35·4	39·2
	Hull	7	20	35·1	40·1
	Lincoln				
	Rauceby	7	18	34·9	40·7
3.	Norwich	7	16	—	—
	Yarmouth	—	—	34·0	40·0
	Lowestoft	7	20	34·4	38·7
	Cambridge	7	18	34·7	39·6
	Clacton-on-Sea ..	7	12	36·0	41·4
	Southend	7	15	35·0	—
	Tottenham	7	9	—	40·4
4.	Harrogate	7	19	55·1	37·7
	Huddersfield ..	7	15	34·2	38·4
	Buxton	7	9	33·8	39·1
	Sheffield	7	17	33·9	38·9
	Nottingham	7	10	32·4	36·7
	Birmingham	7	10	36·0	42·1
	Oxford	7	11	—	—
	Hereford	7	5	—	—
	Cirencester	7	21	—	—
5.	Margate	6	22	35·0	38·8
	Greenwich	7	13	—	—
	Westminster ..	7	14	—	—
	Kew	7	7	33·9	40·2
	Canterbury	7	3	35·1	41·8
	Tunbridge Wells ..				
	Wisley	7	11	34·4	39·3
	Worthing	7	16	35·3	41·1
	Portsmouth	7	11	36·1	41·7
6.	Glasgow	7	14	—	—
	Rothesay	—	—	—	41·8
	Colmonel	6	13	—	—
	Dumfries	7	13	—	—
	Douglas	6	18	—	—
7.	Aspatria	7	6	—	—
	Newton Rigg ..	7	9	35·6	38·3
	Burnley	7	15	33·5	38·5
	Southport	7	12	34·0	38·1
	Manchester City ..	?	?	33·6	39·9
	Bettws-y-Coed ..	5	16	36·0	41·7
8.	Llancammarch Wells	7	- 4	35·5	42·1
	Cardiff	6	8	34·6	40·4
	Clifton	7	16	—	—
	Bath	—	—	36·1	42·2
	Plymouth	6	12	36·2	—
9.	Armagh	7	14	38·0	42·9
	Markree	7	10	—	—
10.	Dublin, Trin. Coll. ..	7	14	38·4	43·5
11.	Guernsey, Brooklyn	6	23	37·9	43·4

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	42	42·1
	Kirkwall	42	38	39·4
	Wick	43	42	42·9
SCOTLAND, E.	Cromarty	42	39	40·2
	Pennan Bay	42	36	39·1
	Aberdeen, Cove Bay ..	41	35	38·2
ENGLAND, N.E.	Burnmouth, Berwick ..	41	38	39·3
	Scarborough	39	37	37·6
ENGLAND, E.	Shipwash Lightship ..	38	36	37·2
	Margate	37	35	35·6
ENGLAND, S.E.	Eastbourne‡	37	35	36·1
SCOTLAND, W.	Lamlash	44	42	42·7
	Ballantrae	42	40	41·0
ENGLAND, N.W.	Port Erin	45	42	42·9
ENGLAND, S.W.	Newquay	45	43	44·0
	Plymouth‡	47	45	45·9
	Salcombe	44	42	43·3
IRELAND, N.W.	Sheephaven	45	43	44·7
	Teelin	46	40	42·2
IRELAND, S.W.	Cleggan	49	43	45·2
	Seafield	46	40	43·3
IRELAND, E.	.. ..			

‡ Only one observation each day.

Registering Balloon Ascents.

Pressure in millimetres of mercury (mm.) and megadynes (mgd.); Temperature in Degrees Absolute; Wind Direction in Angular Measure, 90°=E, 180°=S, 270°=W, 360°=N; Wind Velocity in metres per second.

Height in Kilometres.	1 MANCHESTER. January 12th, 5.55 p.m. Pressure. Mms.	Mgd.	Temp. °A.	2 MANCHESTER. January 13th, 7.29 p.m. Pressure. Mms. 90	Mms. 94	Mgd. 90	Mgd. 94	Temperature. 90	Temperature. 94	3 PYRTON HILL, January 13th, 3 p.m. Temperature. ° A.	Wind, Direction and Velocity.
Ground	755	1·007	[2] 76	736	736	·981	·981	[2] 80·6	[2] 80·6	[2] 78	250°, 3
0·5	712	·950	72	691	687	·921	·916	76	74·5		260°, 16
1·0	666	·888	68	650	652	·867	·870	72	70·5	?	265°, 22
1·5	628	·838	65	614	614	·818	·818	69	67·	73·5	
2·0	590	·787	62	571	575	·761	·767	66	63·5	71 or 69	
2·5	550	·733	61·5	532	542	·710	.723	63	60·5	—	
3·0	510	·680	62·5	502	507	·670	·676	60	57·5	67	
3·5	482	·648	60·5	472	475	·630	·634	57	54·5	64·5	
4·0	452	·608	57·5	443	441	·591	·588	54	51·5	62 or 61	
4·5	425	·567	54	416	416	·555	·555	51·5	49·5	61 or 59·5	
5·0	398	·531	50·5	382	388	·510	·518	49	47	59 or 57	
6·0	348	·464	43·5	328	333	·438	·444	43	41	54	
7·0	296	·395	36	285	293	·380	·391	39	36	47	
8·0	253	·337	28·5	249	251	·314	·334	33·5	30	40	
9·0	223	·297	21·5	219	222	·292	·296	27	23·5	32	
10·	193	·257	17·5	190	187	·253	·249	21	18·5	26	
11·	163	·217	16·5	160	162	·213	·216	17·5	18	22 or 19	
12·				133	135	·177	·180	17·5	18·5	18 or 15	
13·				115	116	·153	·154	18	18·5	17·5 or 15	
14·				98	98	·131	·131	18·5	18·5	17·5 or 16·5	
15·				84	84	·118	·118	18	18·	[2] 17	
16·				72	72	·097	·097	17·5	17·5		
17·				60	61	·080	·081	17·5	17·		
18·				51	51	·068	·068	17	16·		
19·				45	45	·061	·061	16·5	15·5		
20·				38	38	·051	·051	15·5	14·5		
21·				32	33	·043	·044	14·5	13·5		
22·				31	30·5	·041	·041	13	[2] 13		
23·				23	—	·031	—	[2] 12	—		

No. 1.—Balloon fell at Groede, Zeeland, Holland, distance 420 kms., direction 112°. Mean temperature gradient: ground to 2 kms., 0°·68 per 100 metres; 3 kms. to 9 kms., 0°·72 per 100 metres. Temperature inversion from 2·3 kms. to 3·2 kms., corresponding temperatures, 261°·5 and 262°·5 A.

No. 2.—Balloon fell at Castricum, North Holland, distance 450 kms., direction 100°. Mean temperature gradient (0–10 kms.), 0°·58 per 100 metres. In this ascent two instruments, Nos. 90 and 94, were attached to the same balloon. The indications of the instruments are given separately under heads "90" and "94."

No. 3.—Balloon fell at Herrenwörth, Chiemsee, Bavaria, distance 1,070 kms., direction 290°. Mean temperature gradient (0-12 kms.), 0°·51 per 100 metres. Commencement of stratosphere indefinite, about 12 kms. Very good and distinct force, except at the bottom. Only one instrument used. The lines distinctly cross and recross each other.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows: b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

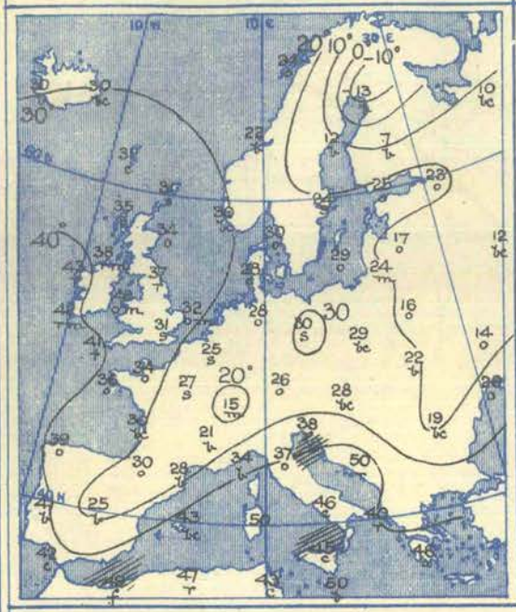
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

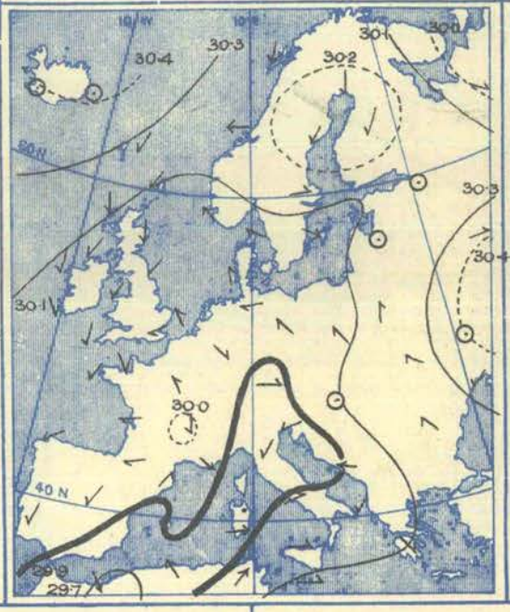
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 28th February, 1909.

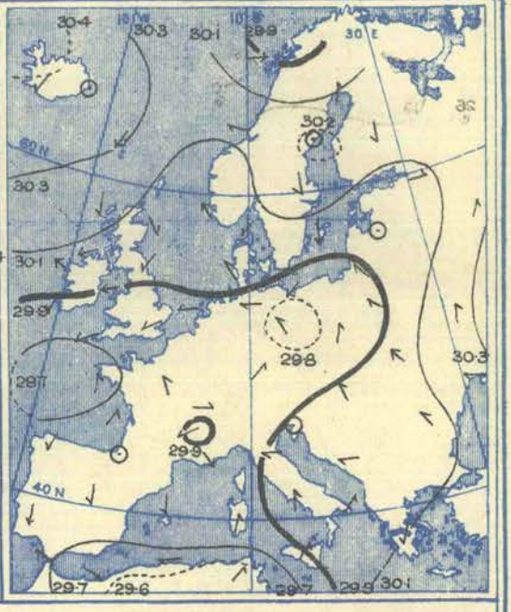
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright in many parts of the Mediterranean region and northern Europe; cloudy or quite overcast in most other districts, with rain in Ireland and snow in several parts of Great Britain and the Continent. Rain falling on the shores of the Adriatic and at Leghorn. Snow later in almost all parts of these Islands, some parts of France, and central Europe, and heavy rain in Italy. Considerable rain experienced in Algeria and at Lisbon.

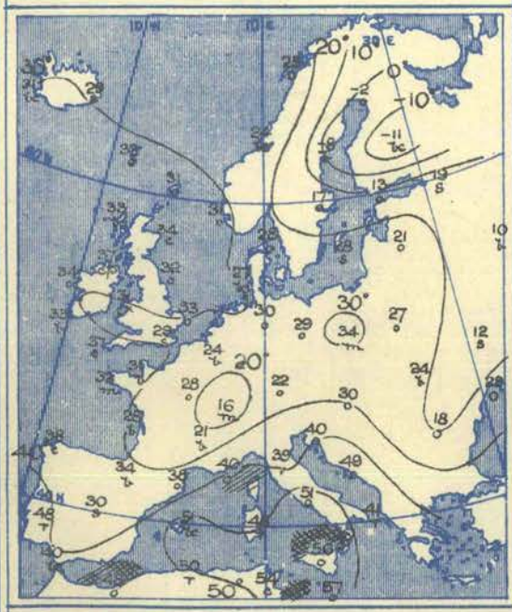
Temperature risen in the west of these Islands, fallen generally. Readings in morning not far from 32° in this country and the west of France, many degrees below it over the Continent as a whole, -5° at Kharkoff, and -13° at Haparanda. Above 40° on the west coast of Ireland and on some shores of the Mediterranean, and 50° at Malta and Lesina. Maxima during day no higher than 32° at some south-eastern stations in this country, about 32° or very little above in various parts of Europe, and below freezing point in some central localities and in the north and east. Thermometer rising to 64° at Oran, Palermo, and Malta.

Wind in morning light and anticyclonic in the far north of our area, irregularly cyclonic elsewhere, and fresh in force in a few localities. A light current from between North and East general in these Islands. Little change as a whole later in day; becoming more Easterly in the United Kingdom.

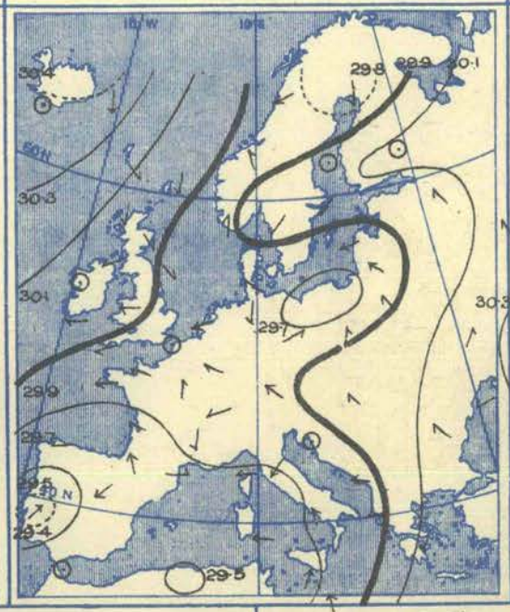
Barometer in morning above 30·4 ins. in the southern half of Russia, above 30·2 ins. over northern Scandinavia, and above 30·4 ins. in the north of Iceland. Relatively low over all the more southern regions, and below 29·7 ins. over the west of Algeria. Pressure giving way generally during day, briskly off our south-west coasts and in some other localities, and more than one minimum of moderate depth appearing. Pressure falling quickly in the extreme north of Norway.

Monday. 1st March. 1909.

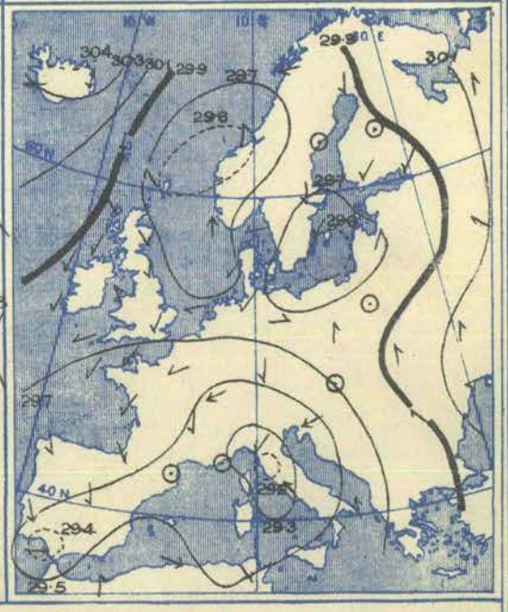
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled and wintry over nearly the whole of our area; snow falling in several parts of our Islands and in places over a large area on the Continent, and rain over the Spanish Peninsula and the south of Europe generally, and also on the north coast of Africa. A thunderstorm prevailing at Sfax. Snow showers experienced later in these Islands and all the more northern countries of the Continent, and heavy rain in Italy, the south of Spain, and in Algeria.

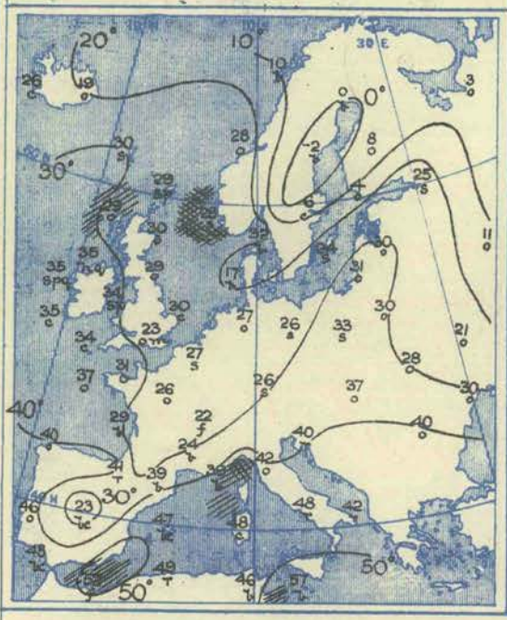
Temperature fallen in most regions. Readings in morning slightly below 32° in several parts of the United Kingdom, and many degrees below it over the major portion of the Continent; below 20° in the east of France and below zero in the northern half of Sweden. Rising later to 35° in many parts of these Islands and to about 40° on the extreme west and south-west coasts. Maxima on the Continent below 32° in many central regions and in the north, but above 50° in the far south. Thermometer rising to 64° at Oran and to 72° at Tunis and Sfax. Frost at night very sharp over central and south-eastern England.

Wind in morning showing two distinct cyclonic circulations in the south of our area and one over the Baltic. Fresh to strong in force from various directions. Light or moderate Northerly to Easterly breezes prevailing over the United Kingdom. Another cyclonic movement setting in later over the north of this country and Norway.

Barometer in morning above 30·4 ins. in Iceland and above 30·3 ins. in the south of Russia. Lowest in two minima in the south and south-west of our area, and relatively low in another system over north Germany, and also in Lapland. Pressure giving way briskly during day over Italy, and disturbance in that region becoming much deeper. A fresh depression appearing between Shetland and Norway, and barometer falling decidedly on our north and north-east coasts.

Tuesday, 2nd March, 1909.

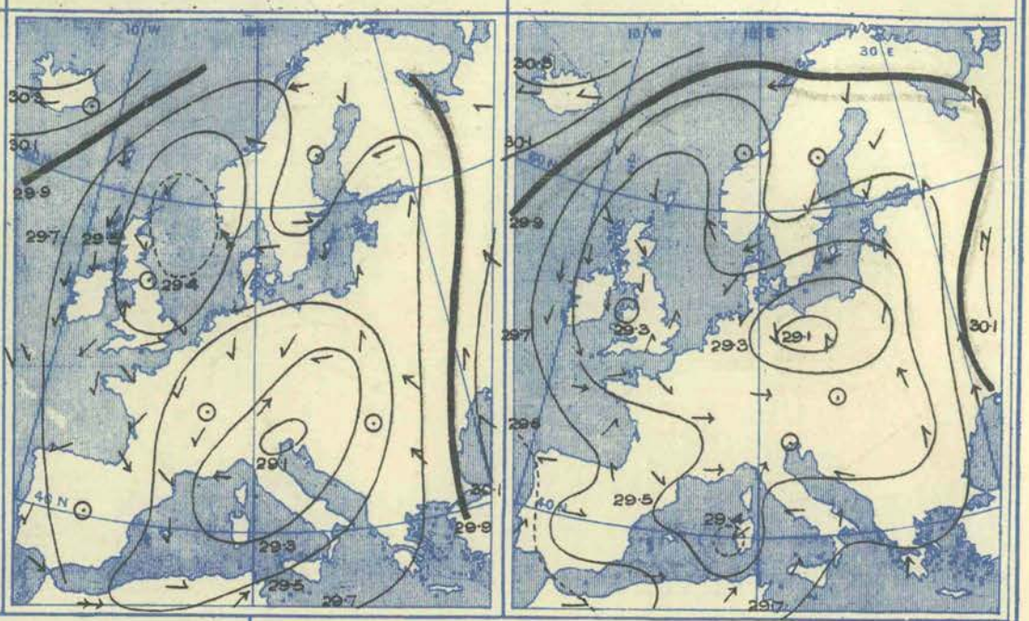
Temperature and Weather. 7 a.m.



Weather in morning very unsettled and wintry over nearly the whole of our area. Snow at times in many parts of these Islands and over a large portion of the Continent, and rain in the south-west of France and over the Mediterranean and Italy. Considerable or heavy falls of snow later in various parts of the United Kingdom and the Continent, and some heavy rain in the south of our area. A thunderstorm, with hail, occurring at Algiers.

Temperature showing no general change. Morning readings below zero in some parts of Finland and Sweden, and below 30° over nearly the whole of our area except the far south. Above 40° on most shores of the Mediterranean, and as high as 57° at Malta. Maxima during day below 40° very generally in this country and below 35° in places. Frost continuing all day in the east of France and many places in central Europe. Thermometer rising to about 60° at a few stations in the extreme south, but only touching 48° at Brindisi. Thermometer falling to 18° at Dungeness and to 14° at Bath during night.

Barometer and Wind. 7 a.m. and 6 p.m.

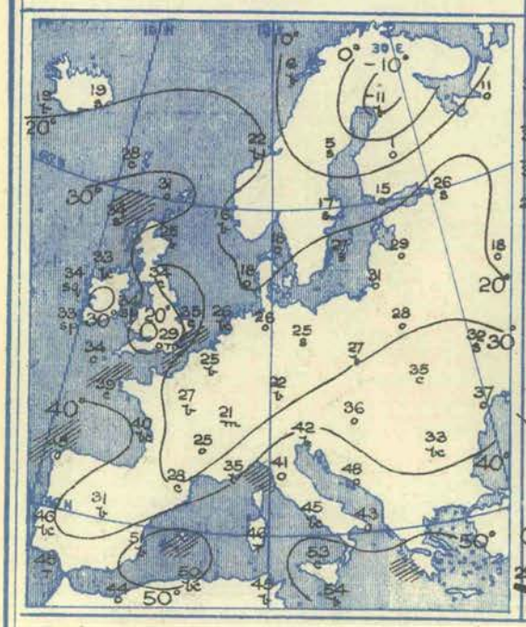


Wind in morning showing two chief cyclonic circulations, one over the North Sea and the neighbouring regions, and the other over Italy and its vicinity. Fresh to strong in various localities, high to a gale from West on the coast of Algeria, and from the South-Eastward on the south-west coast of Norway. Northerly current prevalent in these Islands light to fresh. Increasing to a gale later from the North-Eastward on the shores of the Baltic, and becoming high from North at Holyhead.

Barometer in morning above 30·2 ins. in Iceland and also in the east of Russia. Below 29·3 ins. in a depression having its minimum over the upper portion of the North Sea, and below 29·1 ins. in another system over the north of Italy. Former travelling to the north-west of England during day and the latter to Germany. Pressure increasing slowly in Iceland, and beginning to rise again in the south-west of France and over the Spanish Peninsula.

Wednesday, 3rd March, 1909.

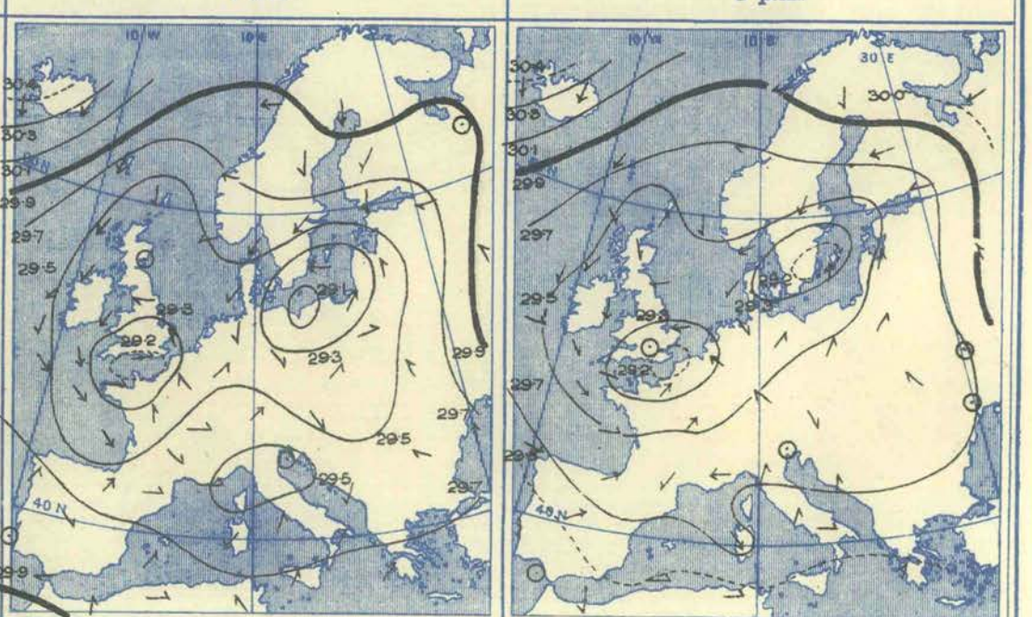
Temperature and Weather. 7 a.m.



Weather in morning very unsettled in all parts of our area except the extreme north and east. Snow falling in many parts of the United Kingdom and the Continent, and rain in places over the Mediterranean region. Large quantities of snow later in various parts of this country, yielding 0·7 in. of water in the gauge at Nairn, 1·0 in. at Dover, and 1·9 in. at Dungeness. Some snow or rain experienced in most regions on the Continent.

Temperature fallen in most regions. Morning readings much below zero at some stations in the far north, and below 32° over our area generally. Above 40° in Italy and the Mediterranean region, and above 50° at a few extreme southern stations. Maxima during day about 32° or very little higher over England and Scotland, and also in the central countries of the Continent, but above 50° on various of the shores Mediterranean, and as high as 70° at Tunis. Minimum during night as low as 18° at Wick and Bath, and 21° at Birr Castle.

Barometer and Wind. 7 a.m. and 6 p.m.

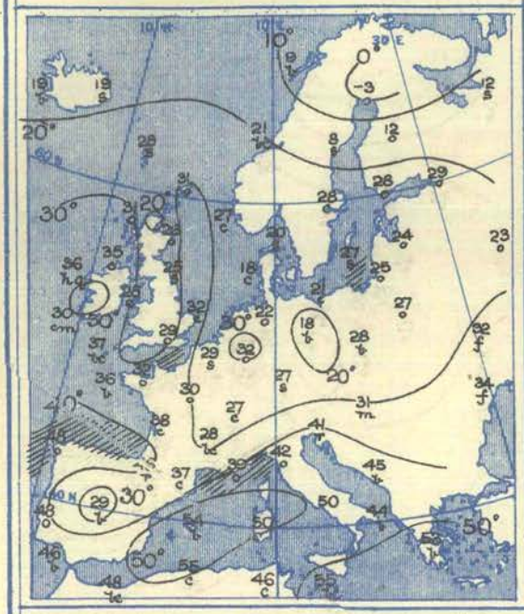


Wind in morning showing three complete cyclonic circulations, the North-Easterly currents being strong in many northern regions, and South-Easterly current strong to high on the south-east coast of England. Increasing to a gale later from between North and North-East in the south of Scandinavia, and to a gale from North in the west of Iceland. Wind becoming Easterly and blowing freshly on the south-east coast of England.

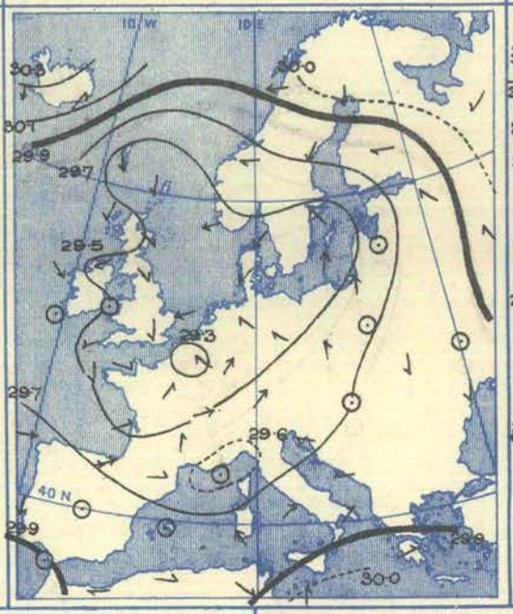
Barometer in morning above 30·4 ins. in the north-west of Iceland; below 29·5 ins. in a large depression over northern Italy, below 29·2 ins. in another system centred over the south of England, and below 29·1 ins. in a third over north Germany. English disturbance moving slowly eastwards during day, and that over Germany reaching the upper portion of the Baltic. Not much change taking place in the general distribution of pressure.

Thursday, 4th March, 1909.

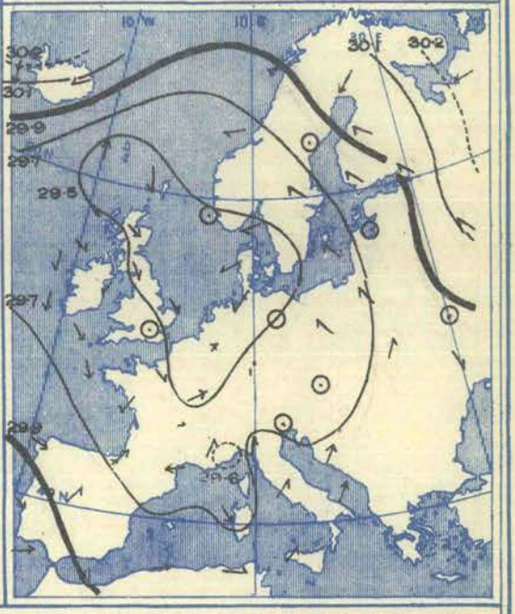
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning continuing changeable and unsettled generally, with occasional showers of snow in various parts of these Islands and more continuous snow in many regions on the Continent. Bright in some localities in the south of our area, but rainy at Biarritz and Trieste. More or less precipitation later over a wide area on the Continent and in the west and north of this country, but much bright sunshine recorded at many of our stations.

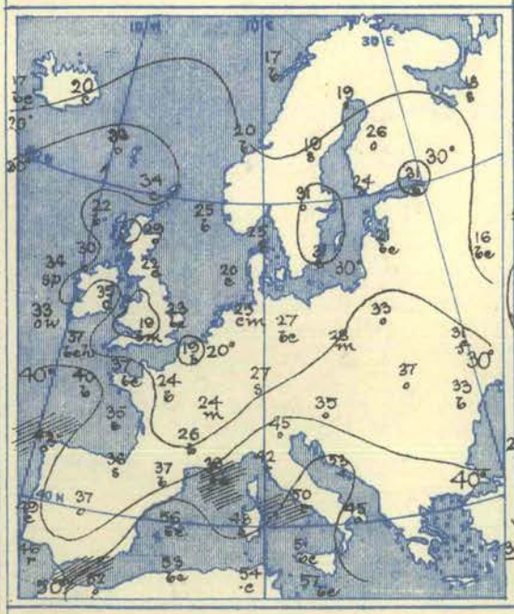
Temperature risen in the south and also in the north of Europe, changed irregularly elsewhere. Readings in morning above 50° on some shores of the Mediterranean, but below 40° on the Riviera. Below 30° over our area generally, and below zero in the north of Sweden. Maxima during day below 32° on the coast of Kent and not much above it in many parts of Great Britain, the east and north of France, and the central countries of the Continent. Thermometer rising to 72° at Tunis, to above 60° on the coast of Algeria, and also at Palermo. Succeeding night extremely cold over most parts of these Islands; minima below 15° in many localities, and as low as 8° at Ross, Hereford.

Wind in morning showing an irregular cyclonic circulation affecting the whole of this country and a large portion of the Continent. Varying a good deal in force, but not generally strong except over the Icelandic region and on the south-west coast of France. No great change later in day; continuing strong to a gale from the South-Westward in the south-west of France. Shifting from the Northward to South at Thorshavn.

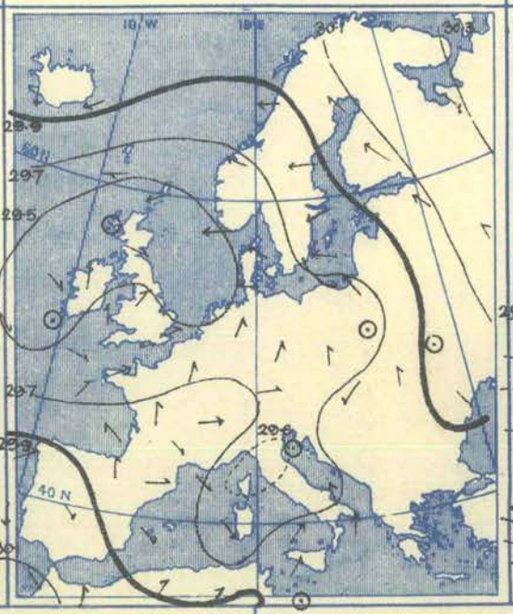
Barometer in morning above 30·3 ins. in northern Iceland; below 29·3 ins. in a depression having its minimum over Belgium, and relatively low in other systems centred off the north of Scotland, the north of Italy and the south-east of France, and in the south of Russia. Belgian disturbance travelling eastwards later and becoming less deep, and that off the north of Scotland moving north-westwards to beyond Thorshavn. Not much modification occurring in the general distribution of pressure.

Friday, 5th March, 1909.

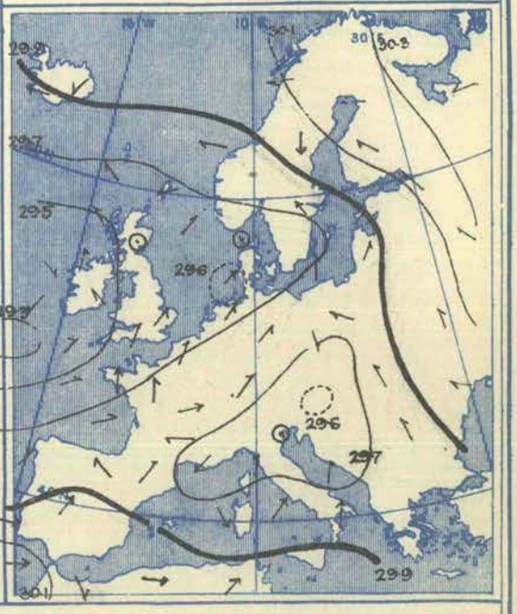
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying a good deal. Fine and bright at several stations in Great Britain, but snow falling in some parts of Ireland and in the Hebrides, and hail at Scilly. Snow or rain falling over a wide area on the Continent, but conditions fair to fine in many places. More or less precipitation occurring later over the greater portion of our area, 0·7 in. at Pembroke and 1·8 in. at Biarritz. A thunderstorm, with hail, taking place at Rochefort.

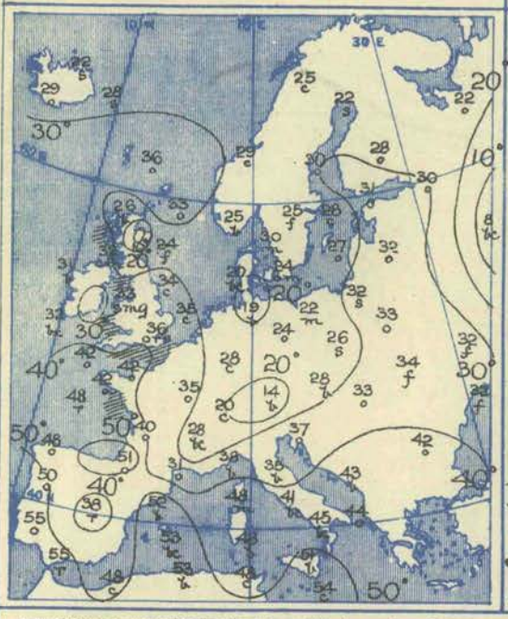
Temperature fallen over our Islands and their neighbourhood. Morning readings below 20° over a large part of Great Britain, and as low as 14° and 15° respectively at Bath and Dungeness. Below 20° at several stations in Russia and the north of Scandinavia. Generally above 40° in the south of our area, and above 50° in places. Highest values 56° at Palma and 57° at Malta. Maxima during day as high as 40° in various parts of these Islands, above 50° over the south of Europe, and above 60° in Sicily and Algeria. Thermometer remaining below 52° in the east and north of our area, and also at Vienna.

Wind in morning cyclonic over our area generally; fresh or strong in force in a few localities on the Continent, but light or moderate as a whole. Backing towards South later on the south-west coasts of England, and increasing in force to a strong breeze at Pembroke.

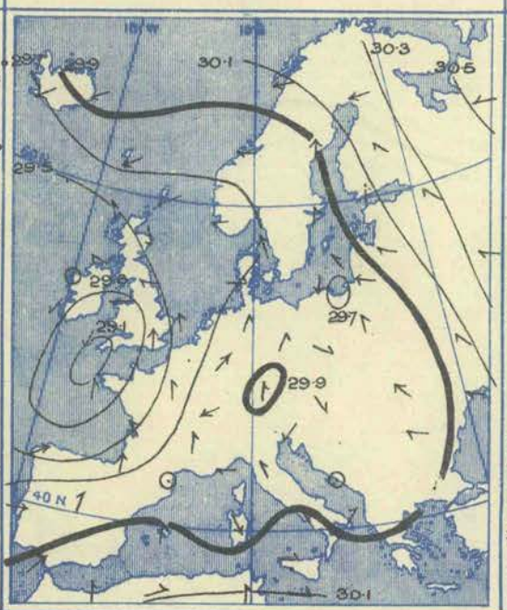
Barometer in morning above 30·3 ins. in the north-east of Russia. Below 29·6 ins. in a depression over the north of Italy and the south-east of France, and below 29·5 ins. in an irregularly shaped low pressure area over the North Sea, the north and west of these Islands, and the adjacent part of the Atlantic. A disturbance of considerable depth approaching the south-west of England from the Atlantic later.

Saturday, 6th March, 1909.

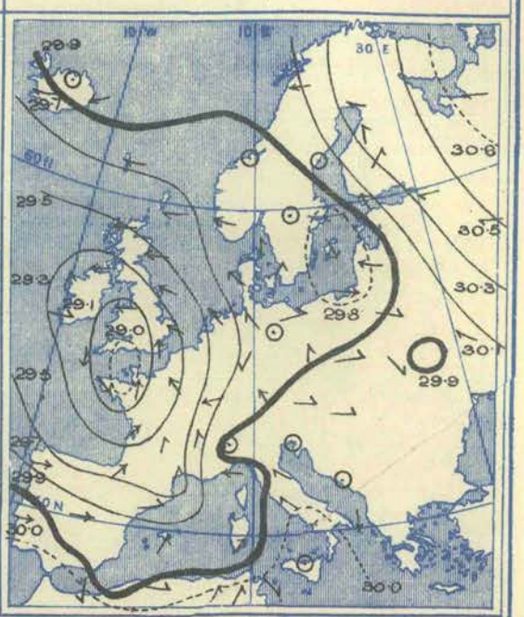
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rough and unsettled over these Islands, with snow or sleet in many parts of England and Ireland. Fair or fine over a large portion of the Continent, but rainy in some parts of Spain and France, and snowy at some stations in central and northern Europe. More than an inch of rain and sleet falling later in several parts of southern England, and equally large quantities of snow in many central and northern districts. Very heavy rain experienced in some parts of southern and western France, and heavy snow at Lemberg and at some stations in north Germany.

Temperature risen over England and the adjacent part of the Continent, fallen in Scotland. Morning readings as low as 8° at Nairn and Moscow, 14° at Munich, 20° at Belfort, and below 32° over the major portion of the Continent. Above 50° at a few stations in the far south and south-west of our area. Maxima during day about 40° in many parts of these Islands, but only 35° at Nottingham and 34° at Nairn. Thermometer rising to about 50° in the south of France and in Italy, to 62° at Palermo, and to 66° at Algiers.

Wind in morning fresh to high from between South and East over England and the east of Ireland, and from South-East or South in the north of France. A strong Westerly breeze prevailing on the west coast of Spain and a Southerly gale at Bilbao. Moderate to light breezes mainly from the Westward general over the Mediterranean, and from some point between South and South-East over the east and north of our area. A North-East gale in some parts of Iceland, increasing to a high wind or gale from the Eastward during night on the east and north-east coasts of Great Britain.

Barometer as high as 30·5 ins. in the north of Russia. Below 29·1 ins. in a depression over the mouth of the Channel and its vicinity. Relatively low in some other disturbances in different parts of our area. Channel disturbance travelling slowly eastwards during day and northwards during night. Gradients increasing decidedly over the North Sea region, and a brisk fall of the barometer in the south-west of France causing a decided increase in the gradient over the Gulf of Lion and its neighbourhood.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1909.										Metres.	
1	March 1st, 5.0 p.m. to 5.46 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	72° 82% —	71° 83% —	70° 83% —					69° 90% — } 620	Calm, fine and bright in early morning, overcast later. Snow.
2	March 2nd, 4.19 p.m. to 5.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	70° 93% 270°, 1	69° 92% 315°, 3	68° 91% 320°, 4	65° 90% 188°, 2				63° 90% 172°, 1 } 1,160	Dull, overcast, fall of snow. Slight breeze rising towards midnight.
3	March 3rd, 11.5 a.m. to 2.5 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	71° 90% 37°, 4	71° 86% 38°, 6	70° 85% 38°, 7	66° 82% 42°, 13				64° 100% 36°, 14 } 1,340	Overcast throughout day, light breeze and cold. Lower clouds at about 910 metres.
4	March 4th, 6.57 p.m. to 7.37 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	68° 88% 315°, —	67° 93% 337°, 2	67° 95% 341°, 3					67° 93% 327°, 3 } 530	Fine and bright in early morning, overcast in afternoon.
5	March 5th, 5.8 p.m. to 6.8 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	72° 87% 180°, 1	71° 90% 176°, 2	71° 91% 174°, 3					69° 97% 157°, 4 } 760	Calm, fine and bright throughout day. Clouds towards night, lower clouds being at about 910 m.
6	March 6th, 9.15 a.m. to 9.56 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	72° 96% 135°, 27	71° 97% 130°, 24	71° 98% 128°, 22					69° 100% 123°, 19 } 790	Dull, overcast, strong breeze. Lower clouds at about 760 m. Snow-falls.
7	March 6th, 10.30 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	74° 95% 110°, 10	75° 100% 110°, 16	72·5° 100% 110°, 24					72·5° 100% 110°, 24 } 550	Heavy snow, kite lost sight of at once. Very strong gusty wind.
8	March 6th, 11.18 a.m. to 1.6 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	73° 95% 123°, 11	72·5° 97% 123°, 13	72° 97% 123°, 15	70° 94% 112°, 17	67·5° 92% 135°, 15			66·5° 94% 135°, 16 } 1,830	Cold, blustery, blizzard. Snow clouds at 760 m.

APPARATUS USED IN THE KITE ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8
No. of Kites	—	—	2	—	—	1	1	1
Area of Surface (sq. metres) ..	—	—	14·1	—	—	7·4	4	3·4
Capacity of Balloon (cub. metres)	3·05	3·05	—	1·83	3·05	—	—	—
Length of Wire (metres) ..	370	1,070	1,330	610	1,220	1,070	500	2,740

63, Victoria Street, London, S.W. *March 10th, 1909.*

W. N. SHAW, *Director.*

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 10. TENTH WEEK, SUNDAY MARCH 7TH TO SATURDAY MARCH 13TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—The general condition continued wintry and unsettled. The sky was mostly very cloudy or quite overcast, and falls of sleet or snow occurred in nearly all parts of Great Britain, while rain, sleet or hail was experienced in Ireland. Precipitation was less frequent in the north-west of England and west of Scotland than elsewhere. Thunder was heard at Gordon Castle on the 10th.

Temperature was again below the average, the greatest divergence being about 4°·5 in the Midland Counties and England S.W., and the least 1°·7 in Scotland N. The highest of the maxima occurred on the 7th or 8th in most parts of England, and on the 12th or 13th elsewhere. They ranged from 53° in Ireland S. to 47° in Scotland E. and England N.E. The lowest of the minima, which were registered on the 7th or 8th over the greater part of the Kingdom, but on the 12th in several Scottish localities, ranged from 8° in Scotland E. (at Nairn on the 7th), 20° in Scotland N., and 22° in England N.E. and Ireland N., to 30° in England E. and to 35° in the English Channel. The lowest grass readings reported were 16° at Buxton and Markree Castle, 17° at Llangammarch Wells, 18° at Balmoral, Huddersfield, Sheffield, and Newton Rigg, and 19° at Cockle Park (Morpeth) and Dublin.

Mean Temperature of the Sea.—At almost every station the water was colder than during the corresponding week of last year, the greatest difference being – 4°·5 at Margate and – 5°·1 at Eastbourne. The actual means for the week ranged from 45°·9 at Plymouth and above 44° on the Irish coasts to below 40° very generally on the south-east, east, and north-east coasts, and to 36°·9 at Margate.

Rainfall exceeded the average in the north-east of Great Britain and also in the English Channel, just about equalled it in England E., S.E., and S.W., and was less in Ireland, Scotland N. and W., England N.W. and the Midland Counties. At Crathes and Balmoral the quantity of melted snow measured on the morning of the 7th yielded 1·49 inch and 1·96 inch in the two respective gauges.

Bright Sunshine was less than the average in all districts. The percentage of the possible duration ranged from 29 in the English Channel, 25 in Ireland S., and 22 in England S.E. to 13 in Scotland W., 11 in England N.E., and 8 in Scotland E.

Barometer and Wind.—At the beginning of the week a depression which had arrived from the south-westward lay over England, causing a complete cyclonic circulation of the wind over our Islands, the Easterly current blowing with gale force in Scotland. The system afterwards travelled away slowly to the mouth of the Channel and its neighbourhood, and after undergoing some modification moved away towards the Mediterranean. The barometer was in the meantime highest in Iceland and Northern Europe, but later in the week pressure gave way over Norway and the North Sea at the same time that it increased over our western districts and the adjacent part of the Atlantic. This change caused the wind to become Northerly instead of North-Easterly over the United Kingdom, and quite at the end of the period it increased considerably in force on the northern and eastern coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 84.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1 Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Deficient	Deficient	Moderate	Deficient	Deficient	Moderate	Deficient	Deficient	Moderate	Deficient	Deficient
	Rainfall ...	Moderate	Very heavy	Heavy	Moderate	Moderate	Moderate	Light	Light	Moderate	Light	Light	Heavy
	Sunshine ...	Moderate	Scanty	Very scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 1 week from Mar. 7th, 1909.	Warmth ...	0 * 0	0 * 1	0 * 1	0 * 0	0 * 1	0 * 1	0 * 0	0 * 1	0 * 1	0 * 0	0 * 1	0 * 1
	Rainfall ...	0 * 0	1 * 0	1 * 0	0 * 0	0 * 0	0 * 0	0 * 1	0 * 1	0 * 0	0 * 1	0 * 1	1 * 0
	Sunshine ...	0 * 0	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 0	0 * 1

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

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SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TENTH WEEK—March 7th to 13th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	49	20	40·6	32·4	36·4	− 1·7	0	− 7	39	+ 4	6	+ 1	0·63	−0·40	14	− 4	19	− 5
Eastern																		
1. SCOTLAND, EAST	47	8	38·8	30·3	34·4	− 3·6	0	− 10	53	+ 15	6	+ 2	1·38	+0·84	6	− 15	8	−20
2. ENGLAND, N.E.	47	22	39·8	32·2	35·9	− 3·6	0	− 14	43	+ 12	7	+ 3	0·78	+0·36	8	− 16	11	−20
3. ENGLAND, EAST	49	30	40·3	32·9	36·5	− 3·1	0	− 17	39	+ 6	5	+ 2	0·36	+0·02	14	− 10	18	−13
4. MIDLAND COUNTIES	48	23	39·6	31·3	35·3	− 4·4	0	− 18	47	+ 14	5	+ 2	0·36	−0·06	11	− 10	14	−13
5. ENGLAND, S.E.	49	28	41·1	33·6	37·2	− 3·6	0	− 19	34	+ 8	5	+ 2	0·43	−0·02	17	− 7	22	− 9
Western																		
6. SCOTLAND, WEST	51	24	42·4	32·4	37·2	− 2·4	1	− 10	32	+ 3	3	− 1	0·34	−0·49	10	− 11	13	−14
7. ENGLAND, N.W.	49	29	40·5	32·7	36·5	− 3·6	0	− 13	39	+ 13	3	− 1	0·19	−0·37	13	− 8	16	−11
8. ENGLAND, S.W.	48	28	41·2	33·1	37·0	− 4·5	0	− 20	35	+ 13	6	+ 2	0·70	+0·03	17	− 7	21	− 9
9. IRELAND, NORTH	51	22	43·5	34·3	38·8	− 2·1	4	− 13	27	+ 3	5	+ 1	0·25	−0·36	11	− 9	15	−12
10. IRELAND, SOUTH	53	26	44·7	33·9	39·1	− 3·5	8	− 15	29	+ 10	5	+ 1	0·37	−0·32	19	− 5	25	− 6
11. ENGLISH CHANNEL	50	35	45·0	38·0	41·4	− 2·8	8	− 17	15	+ 6	7	+ 3	0·95	+0·37	23	− 7	29	− 9

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 1 Week, March 7th to 13th, 1909.

0. SCOTLAND, NORTH	49	20	*	*	*	*	0	− 7	39	+ 4	6	+ 1	0·63	−0·40	14	− 4	19	− 5
Eastern																		
1. SCOTLAND, EAST	47	8	*	*	*	*	0	− 10	53	+ 15	6	+ 2	1·38	+0·84	6	− 15	8	−20
2. ENGLAND, N.E.	47	22	*	*	*	*	0	− 14	43	+ 12	7	+ 3	0·78	+0·36	8	− 16	11	−20
3. ENGLAND, EAST	49	30	*	*	*	*	0	− 17	39	+ 6	5	+ 2	0·36	+0·02	14	− 10	18	−13
4. MIDLAND COUNTIES	48	23	*	*	*	*	0	− 18	47	+ 14	5	+ 2	0·36	−0·06	11	− 10	14	−13
5. ENGLAND, S.E.	49	28	*	*	*	*	0	− 19	34	+ 8	5	+ 2	0·43	−0·02	17	− 7	22	− 9
Western																		
6. SCOTLAND, WEST	51	24	*	*	*	*	1	− 10	32	+ 3	3	− 1	0·34	−0·49	10	− 11	13	−14
7. ENGLAND, N.W.	49	29	*	*	*	*	0	− 13	39	+ 13	3	− 1	0·19	−0·37	13	− 8	16	−11
8. ENGLAND, SW	48	28	*	*	*	*	0	− 20	35	+ 13	6	+ 2	0·70	+0·03	17	− 7	21	− 9
9. IRELAND, NORTH	51	22	*	*	*	*	4	− 13	27	+ 3	5	+ 1	0·25	−0·36	11	− 9	15	−12
10. IRELAND, SOUTH	53	26	*	*	*	*	8	− 15	29	+ 10	5	+ 1	0·37	−0·32	19	− 5	25	− 6
11. ENGLISH CHANNEL	50	35	*	*	*	*	8	− 17	15	+ 6	7	+ 3	0·95	+0·37	23	− 7	29	− 9

THE YEAR.—Aggregates, &c., for the Period of 10 Weeks, January 3rd to March 13th, 1909.

0. SCOTLAND, NORTH	56	13	*	*	*	*	44	− 23	348	− 17	51	0	9·55	−2·44	111	+ 5	19	+ 1
Eastern																		
1. SCOTLAND, EAST	58	1	*	*	*	*	39	− 39	447	+ 32	37	− 2	6·23	+0·70	129	− 17	22	− 3
2. ENGLAND, N.E.	56	14	*	*	*	*	35	− 59	438	+106	33	− 4	3·65	−0·16	154	+ 4	25	+ 1
3. ENGLAND, EAST	58	12	*	*	*	*	35	− 72	444	+ 72	35	− 2	2·61	−1·10	185	+ 21	29	+ 3
4. MIDLAND COUNTIES	57	8	*	*	*	*	43	− 79	492	+123	30	− 6	3·29	−1·31	155	+ 14	24	+ 2
5. ENGLAND, S.E.	56	0	*	*	*	*	64	− 73	403	+118	30	− 5	3·38	−1·52	205	+ 48	32	+ 7
Western																		
6. SCOTLAND, WEST	55	11	*	*	*	*	55	− 45	307	+ 16	38	− 6	8·43	−1·25	124	− 3	20	− 1
7. ENGLAND, N.W.	57	10	*	*	*	*	58	− 49	363	+ 86	34	− 6	4·89	−1·34	174	+ 40	28	+ 6
8. ENGLAND, S.W.	54	7	*	*	*	*	84	− 87	329	+108	34	− 6	4·61	−3·06	206	+ 47	32	+ 7
9 IRELAND, NORTH	55	14	*	*	*	*	125	− 17	204	− 37	48	+ 2	6·50	−0·64	120	− 18	19	− 3
10. IRELAND, SOUTH	59	15	*	*	*	*	176	− 33	206	+ 22	42	0	5·22	−3·02	156	− 4	25	− 1
11. ENGLISH CHANNEL	54	25	*	*	*	*	183	− 61	140	+ 52	37	− 8	5·21	−1·28	238	+ 40	36	+ 6

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				NAMES OF STATIONS.
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*43*	*9th*	*28*	*13th*	*40·1*	*31·9*	*35·9*	—	*0*	*43*	7	*0·42*	—	*21·3*	—	*28*	—	*Balta Sound.*
	a Sumburgh Head ..	42	9th, 10th	29	7th	39·7	31·3	35·4	− 3·0	0	46	5	0·44	− 0·28	14·7	− 5·4	20	− 7	Deerness.
	a Stornoway	47	13th	20	7th	43·1	32·4	37·6	− 1·6	3	38	7	0·27	− 0·69	22·4	+ 2·0	30	+ 3	Stornoway.
	a Castlebay, Barra Isd.	*48*	*12th*	*34*	*7th*	*43·7*	*36·9*	*40·2*	− *1·6*	*5*	*18*	*3*	*0·12*	—	*27·8*	—	*37*	—	*Castlebay.*
	a Wick	43	11th	28	7th	40·6	32·6	36·5	− 2·2	0	39	7	0·50	0·00	*	*	*	*	
b, Mainland.	*p* Strathpeffer.. ..	45	12th	32	11th	39·4	33·3	36·3	− 1·8	0	40	7	1·53	+ 0·91	11·3	− 7·3	15	− 10	Strathpeffer.
	p Glencarron ..	43	12th, 13th	28	11th	38·1	31·1	34·5	− 3·0	0	53	7	1·44	− 0·35	*	*	*	*	
	p Fort Augustus	47	12th	29	12th	41·1	33·6	37·2	− 1·4	0	34	5	0·20	− 0·69	8·3	− 6·9	11	− 9	Fort Augustus.
	p Fort William	49	12th	29	12th	42·2	32·7	37·3	− 2·5	1	32	1	0·02	− 1·60	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	43	11th	28	11th	39·1	30·8	34·8	− 4·7	0	50	7	1·22	+ 1·40	*7·7*	—	*10*	—	*Gordon Castle.*
	a Nairn	43	12th, 13th	8	7th	39·6	27·3	33·3	− 5·5	0	61	7	1·46	+ 1·03	8·3	—	11	—	Nairn.
	a Aberdeen	43	11, 12, 13th	23	7th	40·3	32·1	36·1	− 3·1	0	41	7	1·17	+ 0·65	4·6	− 19·0	6	− 25	Aberdeen.
	a Balmoral ..	39	12th	22	7th	36·6	27·9	32·1	− 2·9	0	69	6	2·66	+ 2·01	2·3	—	3	—	Crathes S.
	p Crieff	47	12th	29	12th	39·5	31·2	35·2	− 3·9	0	48	4	1·44	+ 0·72	8·3	—	11	—	Balruddery
	a Leith	46	12th	25	7th	41·3	33·0	37·0	− 3·5	0	35	7	0·83	+ 0·48	6·4	− 12·1	9	− 16	Edinburgh.
	a West Linton.. S	42	12th	25	12th	35·9	29·3	32·5	− 4·8	0	67	*6*	*0·51*	—	*6·2*	—	*8*	—	*West Linton.*
	p Marchmont .. S	42	12th	30	12th	38·1	31·0	34·5	− 3·5	0	53	6	1·05	+ 0·50	6·5	− 15·5	9	− 20	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	44	12th	22	7th	40·2	31·5	35·7	− 3·7	0	44	7	2·01	+ 1·48	6·3	—	8	—	Cockle Park.
	a Shields	45	8th	31	12th, 13th	40·9	32·4	36·5	− 3·5	0	39	6	0·81	+ 0·43	*4·8*	− *12·7*	*6*	− *17*	*Newcastle.*
	p Durham	44	13th	31	12th	38·6	32·4	35·4	− 3·4	0	46	7	0·84	+ 0·46	5·8	− 16·6	8	− 22	Durham.
	p Rounton .. M	43	12th	31	8th	39·3	32·4	35·8	− 3·0	0	43	7	0·46	+ 0·06	*	*	*	*	
	p Scarborough.. M	44	12th	34	7, 8, 11, 12, 13	40·6	34·3	37·4	− 2·7	0	32	7	0·75	+ 0·33	5·5	—	7	—	Scarborough.
	p York	44	12th, 13th	29	8th	40·1	32·3	36·1	− 4·1	0	41	7	0·68	+ 0·32	7·8	− 12·2	10	− 16	York.
b, South.	*a* Spurn Head	43	8th	32	8th, 13th	38·9	33·4	36·1	− 4·0	0	41	5	0·64	+ 0·34	*	*	*	*	
	a Lincoln	47	8th	23	8th	40·2	30·4	35·2	− 5·1	0	48	7	0·48	+ 0·13	14·9	—	19	—	Skegness.
	a Fulbeck	46	8th	27	8th	39·6	31·0	35·2	− 5·0	0	48	7	0·39	+ 0·03	9·8	—	13	—	Rauceby.
															17·1	—	*22*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	46	8th	32	8, 9, 10, 12, 13	40·0	32·5	36·1	− 3·1	0	41	5	0·21	—	15·1	—	20	—	Cromer.
	p Hillington .. M	48	8th	30	8th	40·1	32·1	36·0	− 3·8	0	42	5	0·46	+ 0·04	8·6	− 14·6	11	− 19	Hillington.
	a Yarmouth	42	8th	33	10, 12, 13th	39·0	34·0	36·4	− 3·0	0	39	4	0·33	− 0·01	17·2	—	22	—	Yarmouth.
	a Norwich	49	8th	31	8th, 13th	41·0	33·2	37·0	− 2·6	0	35	4	0·35	—	*	*	*	*	
	p Geldeston	47	8th	31	13th	40·7	32·8	36·6	− 3·5	0	38	4	0·43	+ 0·10	11·9	− 13·1	16	− 16	Geldeston.
b, South.	*p* Cambridge	48	8th	31	8th	41·2	32·7	36·8	− 3·6	0	36	4	0·43	+ 0·11	16·9	− 7·8	22	− 10	Cambridge.
	a Felixstowe	*42*	*8th, 13th*	*31*	*13th*	*39·4*	*33·0*	*36·1*	− *4·3*	*0*	*41*	7	*0·63*	—	*15·6*	—	*20*	—	*Felixstowe.*
	a Clacton-on-Sea ..	42	8th	32	13th	39·3	33·7	36·4	− 3·5	0	39	5	0·41	—	12·4	—	16	—	Clacton.
	a Rothamsted ..	46	8th	31	8th, 13th	40·1	31·7	35·8	− 3·8	0	43	7	0·29	− 0·14	16·4	− 6·7	21	− 9	Rothamsted.
	a Shoeburyness ..	*44*	*7th*	*32*	*8th, 13th*	*39·7*	*33·0*	*36·3*	− *4·3*	*0*	*40*	*6*	*0·39*	+ *0·12*	*17·0*	—	*22*	—	*Southend.*
	p Tottenham	48	8th	32	8th	41·1	33·4	37·1	− 3·7	0	34	6	0·31	—	13·8	—	18	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	40	12th, 13th	26	8th	36·7	30·0	33·3	− 5·5	0	61	7	0·71	+ 0·22	7·5	—	10	—	Harrogate.
	a Bawtry	43	8th	24	8th	39·4	31·6	35·4	− 4·9	0	46	5	*0·36*	+ 0·01	7·6	− 12·4	10	− 16	Worksop.
	p Buxton .. M	*38*	*13th*	*23*	*8th*	*35·9*	*29·1*	*32·4*	− *4·6*	*0*	*67*	*6*	*0·32*	− *0·59*	*13·5*	—	*16*	—	*Buxton.*
	a Nottingham ..	45	8th	23	8th	39·9	30·1	34·9	− 5·1	0	50	6	0·24	− 0·11	16·6	—	22	—	Nottingham.
	p Birmingham, Edgbn	41	7th, 8th	29	8th	38·2	31·0	34·5	− 5·3	0	53	2	0·29	− 0·12	6·0	—	8	—	Birmingham.
	a Raunds .. M	47	8th	29	8th	40·4	31·4	35·8	− 4·0	0	43	4	0·25	—	*	*	*	*	
	a Oxford	48	8th	33	7,8,9,10,12,13	40·9	33·1	36·9	− 3·9	0	36	6	0·36	+ 0·02	13·9	− 8·5	18	− 11	Oxford.
b, West.	*a* Cheadle .. M	40	7th, 12th	29	8th, 10th	37·7	30·3	33·9	− 5·0	0	57	5	0·30	− 0·20	6·4	—	8	—	Sheffield.
	p Shrewsbury	47	11th	28	8th	43·0	31·7	37·2	− 3·9	3	36	2	0·25	—	*	*	*	*	
	a Hereford .. M	45	13th	29	8th	40·1	31·4	35·6	− 5·3	0	45	6	0·22	− 0·19	*	*	*	*	
	a Cirencester	42	8th, 13th	28	8th	38·2	30·5	34·2	− 5·2	0	55	7	0·53	+ 0·06	12·6	− 10·9	16	− 14	Cirencester.
	a Bath	45	7th, 8th	31	8th	41·3	32·7	36·9	− 4·3	0	36	5	0·46	− 0·02	15·2	—	20	—	Bath.
															14·8	—	*19*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	*p* Kew	48	8th	33	8th	41·4	34·3	37·8	− 3·1	0	29	4	0·23	− 0·14	18·7	− 1·5	24	− 2	Kew.
	a Marlborough ..	43	8th	28	7th	39·0	31·2	35·0	− 4·6	0	49	6	0·44	− 0·11	12·7	− 7·8	16	− 10	Marlborough.
	a Margate	48	8th	33	7, 9, 10, 13	40·8	33·7	37·2	− 3·6	0	34	5	0·58	+ 0·23	11·9	− 12·3	15	− 16	Margate.
	a Wisley, Surrey ..	48	8th	33	7, 9, 13th	41·4	33·9	37·5	− 4·0	0	32	5	0·42	—	16·7	—	21	—	Wisley.
	a Swarraton .. M	45	7th, 8th	30	8th	40·3	32·1	36·1	− 3·7	0	41	5	0·43	− 0·09	21·3	—	27	—	Worthing.
	a Tunbridge Wells M																		Tunbridge Wells.
	a Dungeness	44	7th	30	13th	41·1	33·1	37·0	− 3·7	0	35	6	0·34	− 0·02	14·9	—	19	—	Littlestone.
	p Hastings	45	7th, 8th	33	12th, 13th	40·7	34·0	37·3	− 4·0	0	33	5	0·28	− 0·21	*18·6*	− *8·4*	*24*	− *11*	*Hastings.*
	p Southampton ..	47	7th	33	7th, 9th	42·7	34·4	38·4	− 4·2	2	26	4	0·36	− 0·14	17·4	− 7·7	22	− 10	Southampton.
	a Ventnor	49	7th	33	13th	42·5	35·5	38·9	− 3·8	1	22	6	0·80	+ 0·33	19·0	− 9·0	24	− 12	Ventnor.
															20·3	− 5·9	26	− 8	Eastbourne.
LONDON .. — ..	*a Westminster* ..	*48*	*8th*	*33*	*8th*	*41·4*	*34·3*	*37·8*	− *3·4*	*0*	*29*	*6*	*0·40*	+ *0·02*	*12·3*	− *0·7*	*16*	− *1*	*Westminster.*
	a Greenwich	*49*	*8th*	*30*	*8th*	*41·2*	*33·0*	*37·0*	− *4·6*	*0*	*35*	*6*	*0·44*	+ *0·06*	*17·0*	− *2·4*	*22*	− *3*	*Greenwich.*
6. a, SCOTLAND. W. ..	*p* Laudale	49	12th	30	11th, 12th	43·5	33·6	38·4	− 2·1	4	29	1	0·13	− 1·39	*	*	*	*	
	a Poltalloch .. S	47	12th	26	12th	42·0	31·1	36·4	− 3·0	0	39	2	0·27	− 0·56	*	*	*	*	
	p Glasgow	48	12th	31	12th	40·9	33·2	36·9	− 2·7	0	36	4	0·46	− 0·18	8·0	− 8·0	11	− 11	Glasgow.
	p Rothesay .. S	51	12th	31	12th	42·9	35·3	39·0	− 1·5	3	23	2	0·55	− 0·24	*	*	*	*	
	a Kilmarnock ..	49	12th	26	12th	41·9	30·9	36·2	− 3·6	0	41	2	0·18	—	*5·1*	—	7	—	*Kilmarnock.*
	a Colmonell ..	47	12th, 13th	24	12th	42·6	30·1	36·2	− 3·7	1	32	3	0·55	− 0·12	*	*	*	*	
	p Dumfries ..	51	12th	30	12th	42·5	32·6	37·4	− 2·6	1	32	3	0·55	− 0·52	*	*	*	*	
b, ISLE OF MAN ..	*p* Cally, Gatehouse	50	12th	28	12th	43·6	31·1	37·2	− 2·4	4	38	4	0·38	− 0·52	*	*	*	*	
	p Douglas	45	12th	32	7th	41·3	33·4	37·2	− 3·7	0	34	5	0·26	− 0·43	12·5	− 12·8	16	− 17	Douglas.
															11·6	—	15	—	Hoylake.
7. a, ENGLAND, N.W...	*p* Aspatria	46	12th	30	12th, 13th	40·3	32·2	36·1	− 2·9	0	41	5	0·47	− 0·17	15·3	—	20	—	Aspatria.
	p Newton Rigg ..	43	12th	29	12th	38·0	31·7	34·8	− 3·2	0	50	4	0·27	− 0·35	9·9	− 11·5	13	− 15	Newton Rigg.
	p Stonyhurst	45	12th	31	12th	39·6	32·7	36·1	− 3·2	0	41	2	0·07	− 0·76	9·4	− 11·1	12	− 14	Stonyhurst.
	p Blackpool .. M	42	7, 8, 12th	32	7, 12, 13th	40·8	32·9	36·7	− 3·5	0	37	2	0·17	− 0·37	13·9	− 7·2	18	− 9	Blackpool.
	p M'nch'ster,Prestwich	44	12th	30	8th	39·3	32·3	35·7	− 4·0	0	44	2	0·08	− 0·48	*7·4*	− *8·1*	*10*	− *11*	*Prestwich.*
	a Liverpool (Bidston)	42	8th, 12th	31	8th, 9th	39·9	32·0	35·8	− 5·6	0	43	3	0·22	− 0·21	*15·0*	—	*20*	—	*Liverpool.*
	a Hawarden Bridge ..	49	13th	31	8th, 13th	41·6	32·4	36·9	− 4·6	0	35	3	0·17	− 0·18	*11·1*	− *10·9*	*14*	− *14*	*Southport.*
															12·8	—	*17*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	45	13th	32	8th	41·5	34·0	37·6	− 4·5	0	31	3	0·09	− 0·41	13·7	− 8·8	18	− 11	Llandudno.
	a Holyhead	45	8th, 13th	33	7th, 8th	41·9	34·1	37·9	− 4·2	0	29	3	0·18	− 0·40	15·2	—	20	—	Aberdovey.
	p Bettws-y-Coed ..	46	13th	29	8th	42·0	33·0	37·4	− 4·2	0	32	4	0·19	—	12·0	—	16	—	Bettws-y-Coed.
															14·1	—	18	—	Aberystwyth.
8. a, SOUTH WALES ..	*a* Llangammarch Wells	45	13th	29	8th	39·3	30·7	34·9	− 4·5	0	50	5	0·17	—	15·0	—	19	—	Llangammarch Wells.
	a Pembroke	46	7th, 13th	33	10th, 11th	43·4	34·4	38·8	− 3·5	4	27	6	1·16	+ 0·61	26·4	+ 0·7	34	+ 1	Pembroke.
	a Cardiff	45	13th	30	7th	40·8	32·0	36·3	− 5·3	0	40	5	0·11	− 0·59	*15·3*	—	*20*	—	*Cardiff.*
															21·7	− *5·6*	*28*	− *7*	*Tenby.*
b, ENGLAND, S.W. ..	*a* Clifton	45	8th, 13th	32	7th	41·0	33·1	36·9	− 4·4	0	36	5	0·22	− 0·31	*13·7*	—	*18*	—	*Clifton.*
	a Shaftesbury .. M	43	7th	28	7th	38·3	30·4	34·2	− 5·3	0	55	7	0·60	+ 0·07	*	*	*	*	
	a Arlington	44	7th, 8th	32	9,10,11, 12, 13	39·7	32·3	35·9	− 4·3	0	43	7	0·98	+ 0·09	20·4	− 6·1	26	− 8	Newquay.
	a Cullompton .. M	47	7th	30	8th	41·2	32·5	36·7	− 5·0	0	37	6	1·44	+ 0·85	11·4	− 12·4	15	− 16	Cullompton.
	a Portland Bill ..	46	8th	33	12th	42·3	36·1	39·1	− 3·3	1	20	4	0·65	—	*16·9*	—	*22*	—	*Weymouth.*
	p Plymouth	48	7th	30	10th	43·3	34·1	38·6	− 4·4	4	28	6	0·91	+ 0·29	12·8	− 13·2	16	− 17	Plymouth.
	p Falmouth	47	7th	33	10th	42·8	35·1	38·8	− 4·9	2	24	6	0·75	− 0·02	15·5	− 12·5	20	− 16	Falmouth.
															12·3	− *14·9*	*16*	− *19*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	45	12th, 13th	30	7th	42·6	36·0	39·2	− 2·1	2	21	5	0·37	− 0·14	*	*	*	*	
	a Blacksod Point ..	50	8th	30	7th	45·4	35·6	40·4	− 2·6	10	24	7	0·33	− 0·55	*	*	*	*	
	p Markree Castle ..	49	12th	22	7th	43·8	31·8	37·6	− 3·3	5	36	4	0·33	− 0·40	15·1	− 5·9	20	− 8	Markree Castle.
b, East.	*p* Armagh	51	12th	26	8th	43·5	32·3	37·7	− 3·0	4	34	3	0·10	− 0·40	7·5	− 13·0	10	− 17	Armagh.
	a Donaghadee	47	12th	32	7th	42·3	35·6	38·9	− 2·7	1	22	4	0·14	− 0·39	*	*	*	*	
10. IRELAND, S. — a, East.	*p* Dublin, City.. ..	48	13th	30	7th	43·8	35·0	39·3	− 3·6	5	25	6	0·43	− 0·01	15·2	− 9·2	20	− 12	Phœnix Park.
	a Kilkenny	48	7th, 13th	27	7th	44·9	33·4	39·0	− 2·6	8	31	5	0·21	− 0·33	*	*	*	*	
	a Waterford	50	13th	30	7th	44·7	33·6	39·0	− 3·3	8	30	5	0·49	− 0·20	*	*	*	*	
	a Birr Castle	48	12th, 13th	26	7th	44·1	30·7	37·2	− 3·9	6	40	5	0·16	− 0·35	16·4	− 5·6	21	− 7	Birr Castle.
b, West.	*a* Foynes	49	13th	29	7th	43·6	33·8	38·6	− 4·5	4	29	6	0·37	− 0·29	*	*	*	*	
	a Cahir .. .. M	49	13th	30	7th	44·6	34·7	39·5	− 2·6	7	26	6	0·27	—	*	*	*	*	
	a Killarney	53	13th	32	7th	45·9	34·2	39·9	− 3·3	11	29	5	0·59	− 0·53	*	*	*	*	
	a Valencia	49	13th	31	7th	45·1	34·7	39·8	− 4·8	9	27	4	0·34	− 0·72	22·5	− 2·1	29	− 3	Valencia.
	a Roche's Point ..	49	13th	29	7th	45·6	34·6	39·9	− 4·0	10	27	6	0·50	− 0·17	23·6	—	30	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	47	7, 8, 9th	37	13th	45·4	38·6	41·9	− 3·5	10	14	7	0·77	+ 0·20	25·4	− 2·7	33	− 3	Scilly.
	a Jersey, St. Aubins ..	48	8th	35	11th	44·3	37·0	40·5	− 3·4	6	18	7	0·98	+ 0·46	22·2	− 7·5	29	− 10	St. Heliers.
	a Guernsey	50	8th	36	7th	45·2	38·4	41·7	− 2·7	9	14	6	1·09	+ 0·50	20·1	− 9·3	26	− 12	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 18·0 hrs.* (− *8·0 hrs.*), *23 %* (− *10 %*); *Bournemouth, 15·0 hrs., 19 %*; *Bognor, 21·9 hrs., 28 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	— — ..				
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	38·6
	Crathes	2	23	34·3	37·2
	Balmoral	7	18	—	—
	West Linton	6	21	—	—
	Marchmont ..	2	25	33·4	—
2.	Cockle Park	7	19	33·8	37·4
	Durham	2	28	—	—
	York	—	—	35·3	38·8
	Hull	5	25	35·7	39·1
	Lincoln	—	—	33·3	37·1
	Rauceby	3	21	34·8	40·1
3.	Norwich	2	26	—	—
	Yarmouth	—	—	36·3	40·0
	Lowestoft	2	27	36·4	38·7
	Cambridge	3	26	36·1	39·3
	Clacton-on-Sea ..	4	27	37·5	41·0
	Southend	7	24	36·6	—
	Tottenham	2	26	—	39·9
4.	Harrogate	5	24	35·0	37·3
	Huddersfield ..	2	18	34·0	38·0
	Buxton	7	16	33·7	38·6
	Sheffield	7	18	33·8	38·4
	Nottingham	3	22	33·8	36·1
	Birmingham	7	24	35·8	41·7
	Oxford	5	22	—	—
	Hereford	7	22	—	—
	Cirencester	4	25	—	—
5.	Margate	0	31	36·7	38·7
	Greenwich	3	21	—	—
	Westminster ..	2	28	—	—
	Kew	3	22	36·0	40·0
	Canterbury	4	23	35·6	41·0
	Tunbridge Wells ..				
	Wisley	3	27	36·4	39·3
	Worthing	2	28	38·1	41·0
	Portsmouth	2	28	39·0	41·8
6.	Glasgow	3	26	—	—
	Rothesay	—	—	—	40·9
	Colmonel	3	21	—	—
	Dumfries	?	?	—	—
	Douglas	4	26	—	—
7.	Aspatria	5	25	—	—
	Newton Rigg ..	4	18	34·9	38·0
	Burnley	4	23	33·2	38·0
	Southport	4	24	34·2	37·8
	Manchester City ..	?	?	34·3	39·5
	Bettws-y-Coed ..	2	28	35·9	41·0
8.	Llangammarch Wells	7	17	35·9	41·4
	Cardiff	6	22	35·1	39·7
	Clifton	4	29	—	—
	Bath	—	—	37·1	41·6
	Plymouth	6	22	38·4	—
9.	Armagh	3	21	38·0	42·0
	Markree	3	16	—	—
10.	Dublin, Trin. Coll. ..	2	19	38·5	42·2
11.	Guernsey, Brooklyn	1	30	40·9	43·0

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	41	42·0
	Kirkwall	40	38	39·0
	Wick	?44	?42	?43·1
SCOTLAND, E.	Cromarty	40	39	39·9
	Pennan Bay	40	37	38·0
	Aberdeen, Cove Bay ..	39	36	38·2
ENGLAND, N.E.	Burnmouth, Berwick ..	41	39	39·7
	Scarborough	39	37	37·8
ENGLAND, E.	Shipwash Lightship ..	39	37	37·6
	Margate	38	35	36·9
ENGLAND, S.E.	Eastbourne‡	38	37	37·8
SCOTLAND, W.	Lamlash	42	40	41·5
	Ballantrae	41	40	40·4
ENGLAND, N.W.	Port Erin	43	41	42·0
	Newquay	44	43	43·9
ENGLAND, S.W.	Plymouth‡	47	45	45·9
	Salcombe	45	44	44·5
IRELAND, N.W.	Sheephaven	45	44	44·1
	Teelin	45	43	44·3
IRELAND, S.W.	Cleggan	47	42	44·6
	Seafield	46	40	44·1
IRELAND, E.	.. ..			

‡ Only one observation each day.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; → = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual if** it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

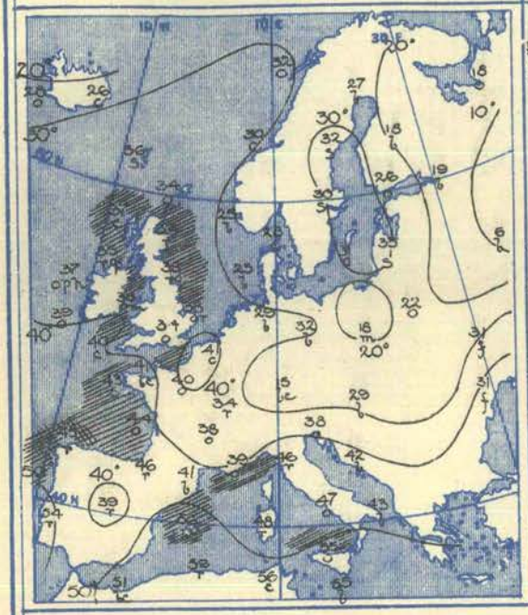
ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = [2]73°, Normal boiling point of water = [3]73°). The figure in the "hundreds" place [2] is not printed in the tables. Values at or below the freezing point of water (73°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7.

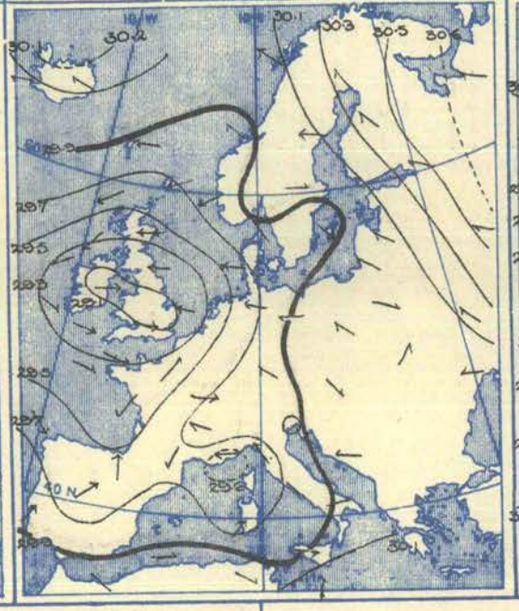
See also p. 4.

Sunday, 7th March, 1909.

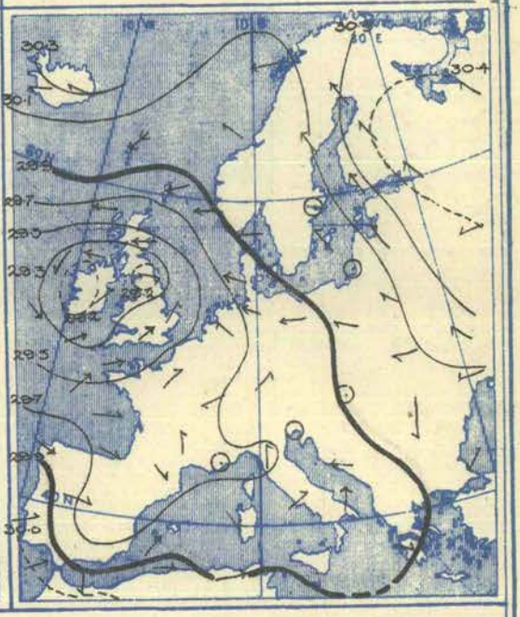
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and unsettled over these Islands and the western half of the Continent, with rain, sleet, or snow in several localities. Fair to fine and bright in Russia and Finland, but snow falling at some Swedish stations. Considerable or heavy precipitation later in this country, France, and many parts of southern Europe, and some slight snow at some places in central Europe.

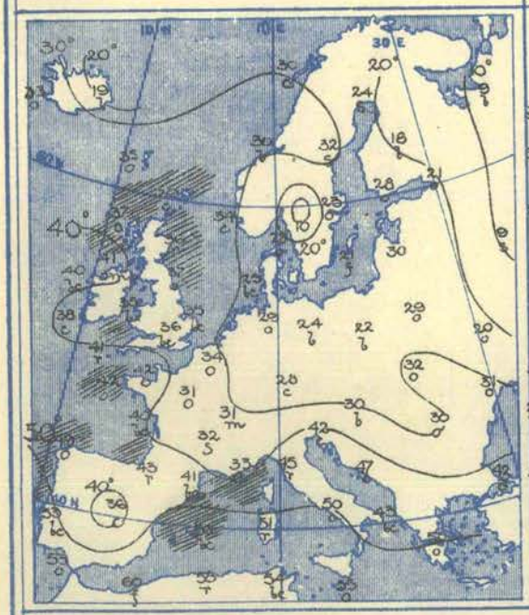
Temperature risen in Italy, France, the Netherlands, and most parts of these Islands, fallen in Russia and central Europe. Readings in morning 59° at Algiers, above 50° at some other southern stations. Below 32° over the east and north of our area, and as low as 6° at Moscow. Above 32° at nearly all our own stations. Rising later to 73° at Nemours, 72° at Sfax, and to above 60° at some stations in the Spanish Peninsula and at Malta. Maxima below 40° at most places in central Europe and England and Scotland, but about 45° on our south-west coast.

Wind in morning showing a very extensive cyclonic circulation over our Islands and the surrounding regions, and a smaller movement over the Gulf of Genoa district. Easterly current strong to a gale on the east and north coasts of Scotland, and that from the Westward strong on our south and south-west coasts. Moderate to strong winds prevailing over the Mediterranean. Gale continuing all day on the Scottish coasts, and South-Westerly wind increasing to a gale at Palma by evening.

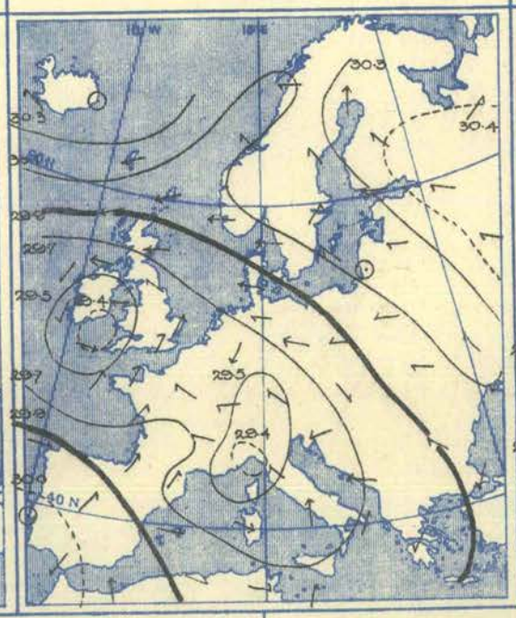
Barometer in morning above 30·6 ins. in the north-east of Russia, and above 30·2 ins. in northern Iceland. Below 29·6 ins. in a depression centred near Nice, and below 29·1 ins. in another over these Islands. No great change occurring during day in the general distribution. British depression moving westwards slowly and undergoing some modification both in form and depth. Southern disturbance moving northwards to France.

Monday, 8th March, 1909.

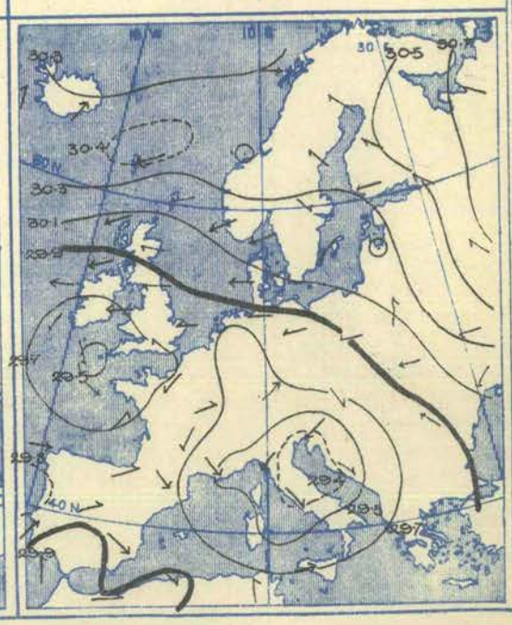
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled over the United Kingdom, France, the Peninsula, and Italy and the Mediterranean, with rain in places over a large area. Fair to fine at most stations over Russia and Scandinavia, but snow falling at Moscow and Haparanda. Some rain later in most parts of this country, heavy in places, and very heavy falls in many parts of Italy and the Adriatic.

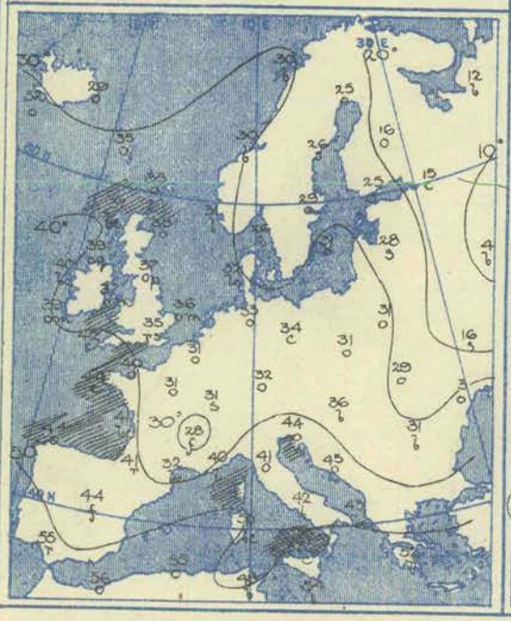
Temperature risen in these Islands, changed irregularly or fallen in many localities on the Continent. Morning readings 31° in central England, below 30° over the eastern half of our area, and below 10° at some Russian stations. Above 50° at some stations in the far south of our area, and as high as 60° at Oran. Maxima during day 68° at Nemours, above 60° in some other localities in the far south, and above 50° in the south of Italy. Thermometer remaining below 40° at many places in the central countries and at a few stations in this country, but rising to above 45° over a large portion of Ireland and southern and western England.

Wind in morning showing two main cyclonic movements, one over these Islands and their neighbourhood, and the other over central Europe, Italy, and the adjacent part of the Mediterranean. A strong breeze from various directions prevailing in many localities, a gale from the Eastward on the north-east coast of Scotland, and from North-East on the south coast of Norway. A gale setting in from North-West by evening on the coast of Corsica, but gales in the north subsiding.

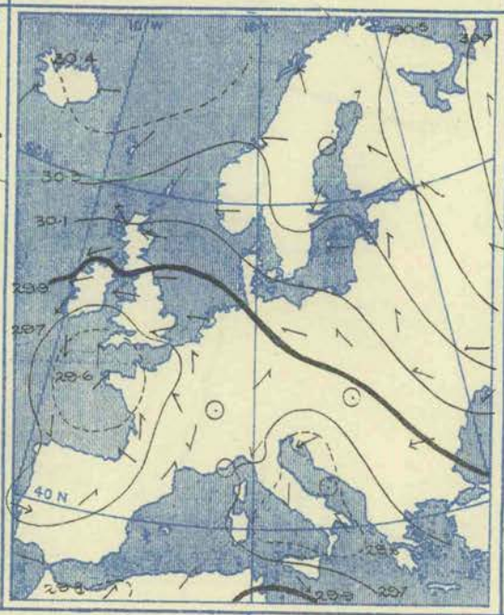
Barometer in morning above 30·4 ins. over the greater part of Russia, and above 30·6 ins. in Iceland. Below 29·4 ins. in a depression having its minimum over the St. George's Channel, and also in another system over the south-east of France and the adacent portion of Italy. Both disturbances moving south-eastwards during day, and little change taking place in the general distribution of pressure. Barometer rising over Russia, Scandinavia, and the United Kingdom.

Tuesday, 9th March, 1909.

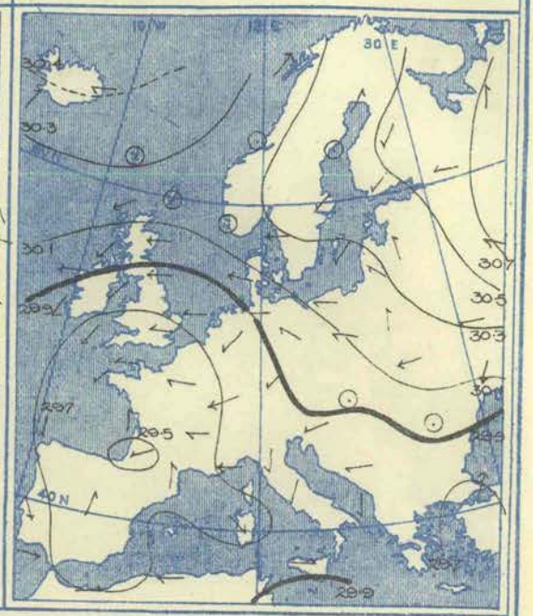
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine in places both in the east and south of our area, but very cloudy or quite overcast generally, with rain or snow in several localities over these Islands and the northern portion of the Continent, and rain at some places in the south of our area. Rain, sleet, or snow in various amounts later in the United Kingdom, and heavy rain in the west and south of France and in the Spanish Peninsula.

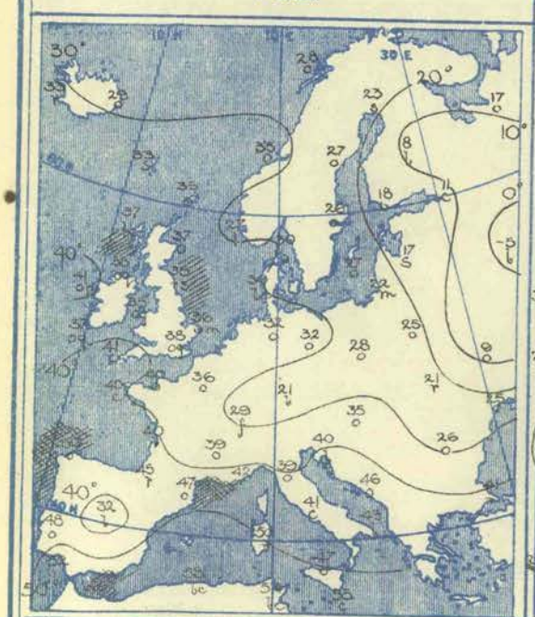
Temperature changed rather irregularly, but fallen in most regions. Readings in morning ranging from above 50° at a few places in the far south to about 32° over a very large portion of the Continent, and to much below 20° in some parts of Russia. Maxima during day 40° or below over the major part of this country and central Europe, but above 50° in the west and south of France, the Spanish Peninsula, and the Mediterranean Islands, and to above 60° in Algeria.

Wind in morning cyclonic over the Bay of Biscay and also over the Mediterranean and Adriatic; anticyclonic in the north-east and north of our area. North-Easterly current light to strong over these Islands, strong to a gale in the Skager Rack, and high at Trieste. No change of importance later.

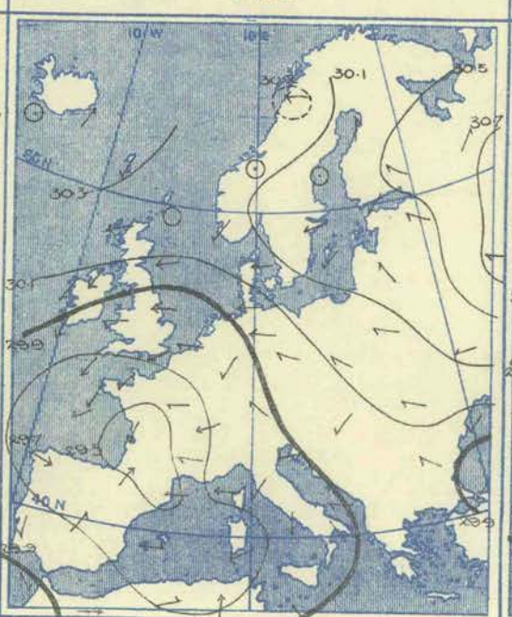
Barometer in morning above 30·4 ins. over Iceland and above 30·7 ins. over the northern half of Russia. Below 29·6 ins. in a depression covering much of Italy and the Adriatic, and also in another disturbance having its minimum over the mouth of the English Channel. Latter system apparently moving southwards during day, and that over Italy undergoing great change in form and intensity. Anticyclonic systems maintaining their positions with very little alteration.

Wednesday, 10th March, 1909.

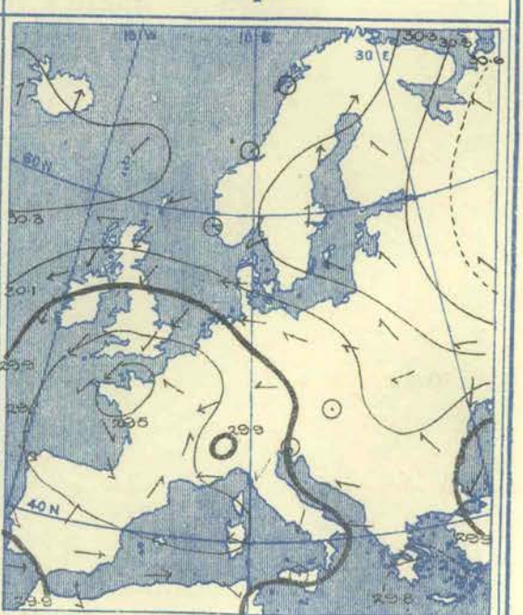
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright at some stations in Russia and the south of our area, but very cloudy or quite overcast generally, with snow in the north of Finland and at Thorshavn, sleet in some parts of these Islands, and rain in places over a large area on the Continent. Showers of sleet later over the United Kingdom, and heavy rain in various parts of France and Italy. More than an inch at Cette, and about 1·6 in. at Sanguinaire.

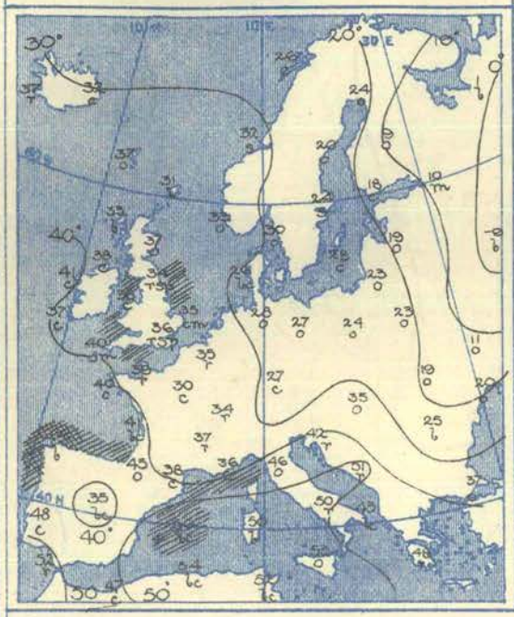
Temperature risen in some localities, but fallen generally. Morning readings below zero in central Russia, and below 22° over the central and northern regions of Europe generally. Above 40° on the shores of the Mediterranean, and above 55° at some stations in the extreme south. Maxima during day below 40° in several parts of these Islands, and below 32° at different places in central Europe. Thermometer rising to about 60° in the Spanish Peninsula, to above it in Algeria, and to 75° at Tunis.

Wind in morning light to moderate from between West and North-West over the Peninsula and Algeria, and from some point between East and North-East in almost all other regions; fresh or strong on some parts of our own coasts, in Denmark, and the south-east of France. Scarcely any change later in day.

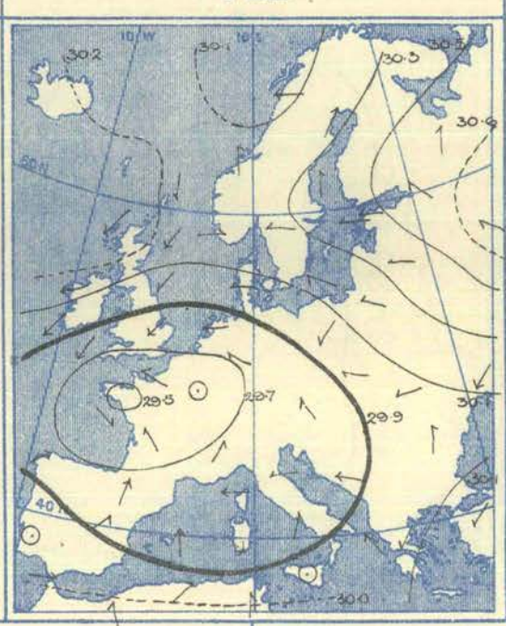
Barometer in morning ranging from above 30·7 ins. in an anticyclone over Russia, and above 30·3 ins. in another system over Iceland, to below 29·5 ins. in a depression over France. Relatively low in a shallow disturbance near Bodö. Very little modification later in the general distribution of pressure. Barometer falling slowly in Iceland and rising in the north of these Islands. Depression over France taking up a position rather nearer the south of England.

Thursday, 11th March, 1909.

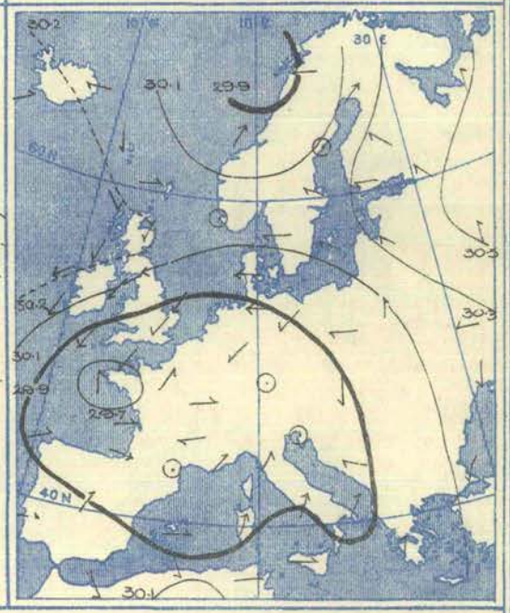
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast or very cloudy over our area generally, but fine and bright in some parts of Russia and the Mediterranean region. Rain or sleet showers in some British localities, snow falling in some parts of Scandinavia, and rain at a few stations in the south of Europe. Sleet showers experienced later over the greater portion of our Islands, some snow in Holland and central Europe, and more or less rain in France and Italy. A thunderstorm occurring at Marseilles.

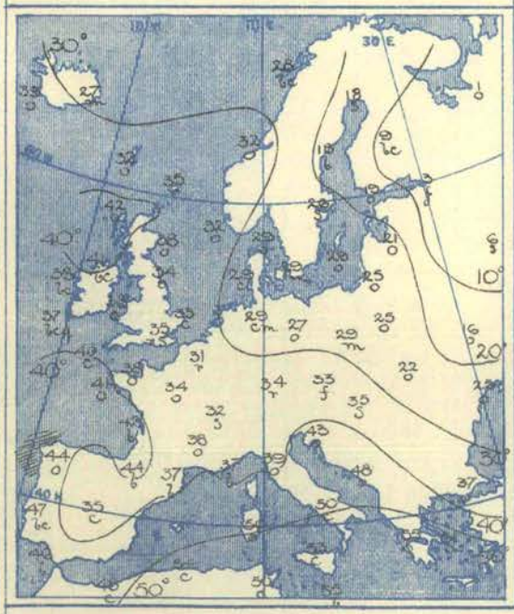
Temperature showing no decided or general change. Morning readings ranging from above 50° at many stations on the shores of the Mediterranean to below 32° over the major portion of the Continent, to below 10° over most of Russia, and to - 9° at Moscow. Maxima during day again below 40° over a large portion of the United Kingdom, and below 32° in Russia, North Germany, and Poland, and also at Constantinople. Thermometer rising to 70° at Tunis, above 60° in the Mediterranean Islands, and to above 55° in some parts of Italy and the Spanish Peninsula.

Wind in morning cyclonic over all the south-western portion of our area, and anticyclonic both in the north-west and north-east. North-Easterly current moderate to fresh or strong over these Islands and the Channel, but little force prevailing over our area as a whole. No important change later ; some decrease in force over this country.

Barometer in morning above 30·6 ins. over the northern half of Russia, and above 30·2 ins. between these Islands and Iceland. Below 29·5 ins. in a depression having its minimum over Brittany, and relatively low in an ill-defined system over Italy and its neighbourhood. Main depression maintaining its position, but decreasing in depth, during day. A new fall of the barometer setting in over the north of Norway and extending southwards. Very little change taking place within the anticyclonic regions.

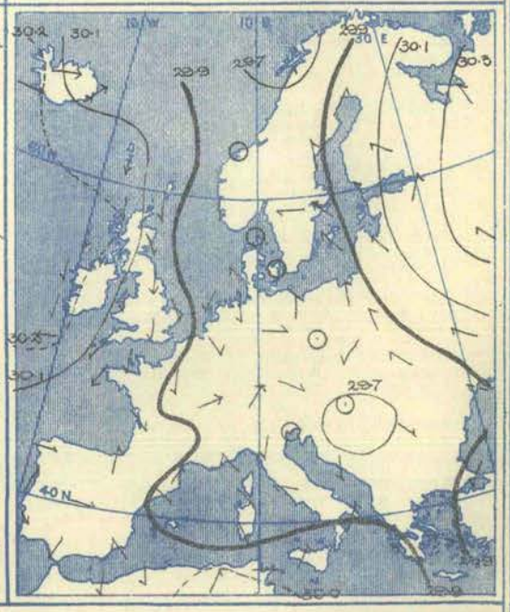
Friday, 12th March, 1909.

Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.

Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright in Ireland, the south and west of France, and at a few stations scattered about the Mediterranean, but generally very cloudy or entirely overcast, with rain or sleet in several parts of Great Britain and the central countries, rain in some southern localities, and snow in the north of Finland and at Moscow. Some snow, sleet, or rain falling later in nearly all parts of our area, but measurements not large.

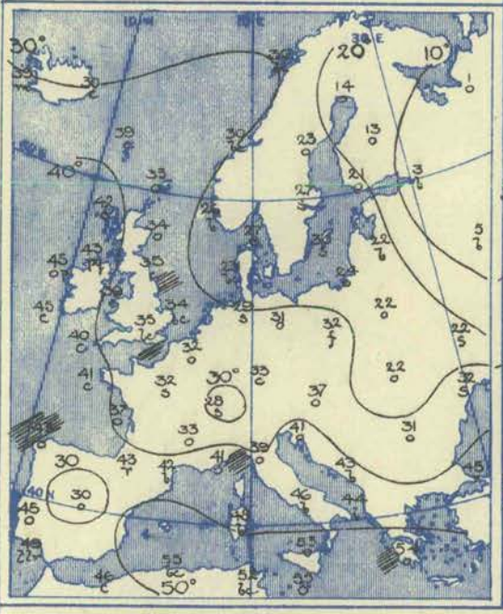
Temperature changed irregularly. Morning readings not much above 32° in Great Britain and France, and much below it over Russia, Poland, and Scandinavia. A little above 50° on some shores of the Mediterranean, and as high as 58° at Tunis. Maxima during day no higher than 36° at some of our south-eastern stations during day, and not much above 40° over Great Britain generally. Frost continuing throughout the day at various places in central Europe, and thermometer only touching 50° at Brindisi. Maxima above 60° at Constantinople, Athens, and in Algeria.

Wind in morning showing anticyclonic movements in the east and extreme west of our area, and cyclonic circulations over the intervening region. Light or moderate in force generally, but fresh in a few localities and strong at Skudesnaes. No change of a general character later in day ; a gale from the South-Westward setting in at Seydisfjord.

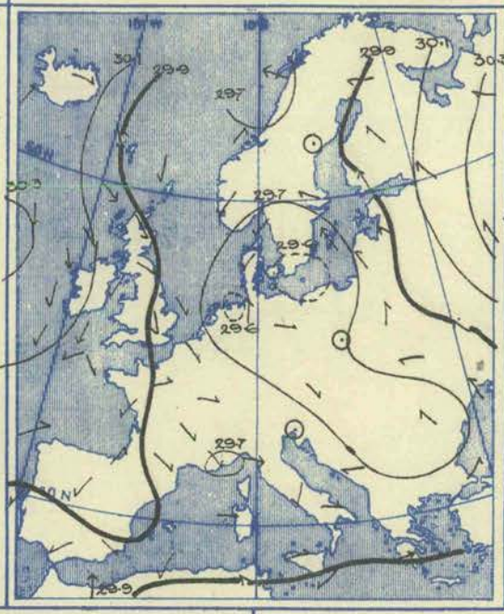
Barometer in morning above 30·4 ins. in the north-east of our area, and above 30·3 ins. to the westward and north-westward of Ireland. Below 29·7 ins. in a depression over the north of Norway, and nearly as low in three distinct minima over central and southern Europe. Low pressure systems undergoing some modification in form during day, but no change of importance taking place in the general distribution. A rather decided fall of the barometer setting in in Iceland.

Saturday, 13th March, 1909.

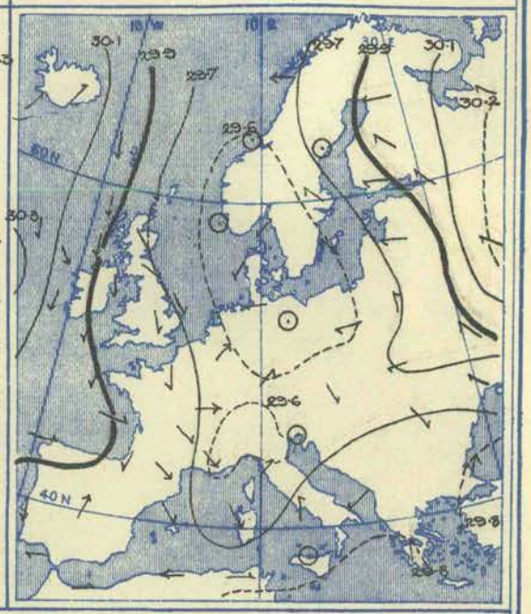
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in some parts of Norway, Russia, and the extreme south of our area, but overcast generally, with rain or sleet in some parts of these Islands and snow in places over a large area on the Continent. Rainy at Constantinople and in the south-west of France, and a thunderstorm prevailing at San Fernando. More or less precipitation later over these Islands and a considerable portion of the Continent, and also in Algeria; nearly an inch at Patras.

Temperature showing little change. Morning readings not much above zero in Russia and very little above 32° in Great Britain and on the mainland of the Continent. Above 50° at about 40° or a few degrees higher in most parts of this country, but lower in the central countries, and below 32° in some parts of Poland and North Germany. Thermometer rising to above 50° in Spain and Italy, and to above 60° at Athens and in Algeria.

Wind in morning mainly cyclonic and light to fresh in force. Chiefly Northerly over the United Kingdom and the north and west of France. No general change later in day. Increasing somewhat from the Northward at Thorshavn, and becoming strong from that quarter during night on some parts of our western and eastern coasts.

Barometer in morning above 30·3 ins. in the north-east of Russia, and some distance to the westward of Ireland. Below 29·6 ins. in a minimum over the western portion of the Baltic, and relatively low in a large zone including some other minima extending from beyond the north-west of Norway to the Black Sea. A separate depression lying over the Gulf of Genoa. Pressure giving way very generally during day and the succeeding night, and a complex depression developing over the North Sea.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	March 8th, 10.54 a.m. to 11.44 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	75° 92% 123°, 8	74° 93% 127°, 10	74° 94% 135°, 11	72° 96% 146°, 17				70° 100% 146°, 16	1,400	Fine, bright and clear. Clouds not reached.
2	March 8th, 1.8 p.m. to 4.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	75° 91% 105°, 8	75° 91% 133°, 11	74° 92% 132°, 12·5	72° 97% 139°, 17	69° 97% 147°, 16			68° 100% 135°, 17	1,980	Fine, bright and clear throughout day. Moderate variable breeze, steady up above. Lower clouds at 1,830 m.
3	March 9th, 10.47 a.m. to 12.28 p.m.	Howard Estate. Glossop, 335 m.	Temperature Humidity .. Wind	73° 98% 45°, 4	72° 99% 45°, 6	73° 99% 45°, 7					69° 100% 56°, 13	980	Dull, cold and overcast. Clouds reached at 244 m. Kite and 760 m. of wire covered with ice and snow. Wind velocities only for ascent.
4	March 10th, 10.43 a.m. to 11.23 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	73° 98% 90°, 10	74° 94% 82°, 10	74° 95% 78°, 10	72° 99% 67°, 11				67° 97% 78°, 14	1,400	Fine and bright early, overcast later, moderate breeze falling off to light breeze in afternoon. Kite dropped from about 1,240 m.
5	March 11th, 10.14 a.m. to 10.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	74° 95% 45°, 6	73·5° 100% 45°, 9	72° 100% 45°, 14?					71° 100% 45°, 14?	920	Clouds at 450 m. Kite and end of wire came back loaded with ice.
6	March 11th, 4.10 p.m. to 4.23 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	72° 95% 45°, 17	72° 97% 36°, 20	72° 98% 30°, 22					72° 100%, 22°, 25	580	Dull, cold, overcast. Fresh gale. Wind very gusty. Lower clouds at about 520 m. Kite continually diving and finally fell.
7	March 12th, 10.20 a.m. to 11.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	73·5° 80% 10°, 6	73° 80% 10°, 9	72° 35% 20°, 14	70° 100% 20°, 16				68° 100% 20°, 17	1,300	Clouds at all heights above 600 m. Kite and wire thickly loaded with ice. Wind estimated from pull on wire.
8	March 12th, 11.2 a.m. to 1.54 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	74° 80% 360°, 4	73° 78% 4°, 5	72° 77% 6°, 7	69° 70% 11°, 12	68° 99% 16°, 16	65° 97% 11°, 17		65° 97% 11°, 17	2,070	Fine, bright, overcast later. Cold. Ground wind variable. Temp. inversion at 1,400 m. Lower clouds reached at 1,250 m. Second kite tried, but would not rise.
9	March 13th, 10.28 a.m. to 12.10 p.m	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind ..	75° 80% 350°, 7	74° 80% 350°, 9	73° 85% 350°, 14	71° 95% 350°, 14				69° 100% 350°,14	1,300	Overcast, clouds at various heights above 800 m.
10	March 13th, 11.53 a.m. to 1.5 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	75° 95% 315°, 8	72° 94% 315°, 10	70° 98% 315°, 12	68° 91% 337°, 11				69° 100% 337°,17	1,400	Fine and bright in early morning, overcast later. Lower wind variable, upper wind rose rapidly from early morning. Lower clouds reached at 1,220 m. Slight temp. inversion at 1,220 m.

APPARATUS USED IN THE KITE ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10
No. of Kites	1	2	2	1	1	1	1	1	2	1
Area of Surface (sq. metres) ..	4·2	14·1	14·1	4·2	7	4·2	4	7	8	7
Length of Wire (metres) ..	1 520	3,050	1,310	1,400	1,500	760	1,800	2,440	1,800	1,370

63, Victoria Street, London, S.W. *March 17th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 11. ELEVENTH WEEK, SUNDAY MARCH 14TH TO SATURDAY MARCH 20TH, 1909. *[Price 6d. Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather was generally unsettled, with snow or sleet showers during the early days of the week, followed by rain later. In many western and north-western localities the weather was, however, often very bright, and in nearly all districts a few fine intervals were experienced. Aurora was observed on Friday evening at Nairn, Gordon Castle, Cromer, and Cahir.

Temperature was low early in the week, and although it afterwards rose very decidedly, the mean for the period was again below the normal, the greatest deficit being 4°·6 in Scotland E. The highest of the maxima, which were recorded on the 19th or 20th, ranged from 58° in England N.E. and 57° in the Midland Counties to 51° in Scotland N. and 50° in Scotland E. The lowest of the minima, which occurred generally on the 16th or 17th, varied from 7° in Scotland E. (at Balmoral on the 17th), 12° in England S.W. (at Llangammarch Wells on the 17th), and 13° in England S.E. (at Marlborough on the 17th), to 23° in Ireland and to 30° in the English Channel. The lowest grass readings reported were 3° at Balmoral and Llangammarch Wells, 9° at Birmingham, 11° at West Linton, 12° at Markree Castle, 14° at Southport, Cockle Park (Morpeth) and other places in the north-east, and 15° at Cardiff.

Mean Temperature of the Sea.—On nearly all coasts the water was colder than during the corresponding week of last year. The actual values ranged from 46° at Plymouth and about 45° at several stations on the Irish coast to below 40° at most places on the east and south-east coasts, and to 37°·3 at Margate.

Rainfall was in excess of the average in Ireland and in various parts of Great Britain, but below it in Scotland N. and W., and over northern and central England.

Bright Sunshine exceeded the normal in the western half of the Kingdom and equalled it in the Midland Counties; elsewhere there was a deficiency. The percentage of the possible duration ranged from 46 in Ireland S. and the English Channel, 42 in England N.W. and 41 in England S.W. to 24 in Scotland N. and to 22 in England E.

Barometer and Wind.—At the commencement of the week a depression covered the North Sea and the general direction of the wind over these islands was Northerly. This condition continued with little modification until Tuesday evening, when a shallow low pressure system appeared between Scotland and Iceland and the wind backed to West or South-West. This was followed by the arrival from the Atlantic of another disturbance, which was originally very deep, but diminished gradually in intensity as it spread eastwards over the United Kingdom. The wind, after blowing strongly from South-East on our south-west coasts on Thursday, veered further to the Southward, and fell to a moderate or light breeze.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 84.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate
	Rainfall ...	Light	Moderate	Moderate	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Heavy
	Sunshine ...	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 2 weeks from Mar. 7th, 1909.	Warmth ...	0 * 1	0 * 2	0 * 2	0 * 0	0 * 2	0 * 2	0 * 1	0 * 2	0 * 2	0 * 1	0 * 2	0 * 1
	Rainfall ...	0 * 1	1 * 0	1 * 0	1 * 0	0 * 0	0 * 0	0 * 1	0 * 1	0 * 0	0 * 1	0 * 1	2 * 0
	Sunshine ...	0 * 0	0 * 1	0 * 1	0 * 2	0 * 1	0 * 1	1 * 1	1 * 1	1 * 1	0 * 1	1 * 0	0 * 1

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

ELEVENTH WEEK—March 14th to 20th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	51	22	41·4	30·1	35·6	− 3·5	0	− 9	45	+ 14	5	0	0·45	−0·61	19	− 1	24	− 1
Eastern																		
1. SCOTLAND, EAST	50	7	40·9	28·9	34·7	− 4·6	0	− 15	51	+ 17	5	+ 1	0·56	+0·03	22	− 1	28	− 2
2. ENGLAND, N.E.	58	21	43·7	30·8	37·1	− 3·6	5	− 14	39	+ 12	4	+ 1	0·32	−0·10	26	− 2	32	− 2
3. ENGLAND, EAST	56	21	43·6	32·1	37·7	− 3·2	4	− 20	35	+ 6	6	+ 3	0·46	+0·13	18	− 10	22	−13
4. MIDLAND COUNTIES	57	17	44·5	30·3	37·2	− 3·8	7	− 17	41	+ 12	4	+ 1	0·26	−0·11	24	0	30	0
5. ENGLAND, S.E.	55	18	43·9	32·8	38·2	− 3·8	5	− 19	32	+ 10	5	+ 2	0·52	+0·12	22	− 5	28	− 6
Western																		
6. SCOTLAND, WEST	53	19	45·2	32·4	38·6	− 2·1	9	− 7	34	+ 9	4	0	0·65	−0·13	31	+ 7	38	+ 9
7. ENGLAND, N.W.	56	19	44·9	33·2	38·9	− 2·3	8	− 10	32	+ 10	5	+ 1	0·33	−0·18	34	+ 10	42	+13
8. ENGLAND, S.W.	54	12	45·4	33·1	39·1	− 3·4	10	− 14	32	+ 14	6	+ 2	0·75	+0·18	33	+ 6	41	+ 8
9. IRELAND, NORTH	54	23	45·8	34·1	39·8	− 2·0	11	− 10	29	+ 8	5	0	0·73	+0·17	26	+ 4	32	+ 5
10. IRELAND, SOUTH	55	23	48·4	35·1	41·6	− 1·7	18	− 9	28	+ 12	6	+ 2	0·91	+0·28	37	+ 12	46	+14
11. ENGLISH CHANNEL	55	30	48·3	37·9	42·9	− 2·2	24	− 5	11	+ 4	7	+ 3	0·80	+0·33	37	+ 4	46	+ 5

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 2 Weeks, March 7th to 20th, 1909.

0. SCOTLAND, NORTH	51	20	*	*	*	*	0	− 16	84	+ 18	11	+ 1	1·08	−1·01	33	− 5	21	− 3
Eastern																		
1. SCOTLAND, EAST	50	7	*	*	*	*	0	− 25	104	+ 32	11	+ 3	1·94	+0·87	28	− 17	18	−11
2. ENGLAND, N.E.	58	21	*	*	*	*	5	− 28	82	+ 24	11	+ 4	1·10	+0·26	34	− 18	22	−11
3. ENGLAND, EAST	56	21	*	*	*	*	4	− 37	74	+ 12	11	+ 5	0·82	+0·15	32	− 19	20	−12
4. MIDLAND COUNTIES	57	17	*	*	*	*	7	− 35	88	+ 26	9	+ 3	0·62	−0·17	35	− 10	22	− 7
5. ENGLAND, S.E.	55	13	*	*	*	*	5	− 38	66	+ 18	10	+ 4	0·95	+0·10	39	− 11	25	− 7
Western																		
6. SCOTLAND, WEST	53	19	*	*	*	*	19	− 17	66	+ 12	7	− 1	0·99	−0·62	41	− 4	26	− 2
7. ENGLAND, N.W.	56	19	*	*	*	*	8	− 23	71	+ 23	8	0	0·52	−0·55	47	+ 3	30	+ 2
8. ENGLAND, SW	54	12	*	*	*	*	10	− 34	67	+ 27	12	+ 4	1·45	+0·21	50	− 1	31	− 1
9. IRELAND, NORTH	54	22	*	*	*	*	15	− 23	56	+ 11	10	+ 1	0·98	−0·19	37	− 6	23	− 4
10. IRELAND, SOUTH	55	23	*	*	*	*	26	− 24	57	+ 22	11	+ 3	1·28	−0·04	50	+ 6	35	+ 4
11. ENGLISH CHANNEL	55	30	*	*	*	*	32	− 22	26	+ 10	14	+ 6	1·75	+0·70	60	− 3	38	− 2

THE YEAR.—Aggregates, &c., for the Period of 11 Weeks, January 3rd to March 20th, 1909.

0. SCOTLAND, NORTH	56	13	*	*	*	*	44	− 32	393	− 3	56	0	10·00	−3·05	130	+ 4	20	+ 1
Eastern																		
1. SCOTLAND, EAST	58	1	*	*	*	*	39	− 54	498	+ 49	42	− 1	6·79	+0·73	151	− 18	22	− 3
2. ENGLAND, N.E.	58	14	*	*	*	*	40	− 73	477	+118	37	− 3	3·97	−0·26	180	+ 2	26	0
3. ENGLAND, EAST	58	12	*	*	*	*	39	− 92	479	+ 78	41	+ 1	3·07	−0·97	203	+ 12	28	+ 2
4. MIDLAND COUNTIES	57	8	*	*	*	*	50	− 96	533	+135	34	− 5	3·55	−1·42	179	+ 14	25	+ 2
5. ENGLAND, S.E.	56	0	*	*	*	*	69	− 92	435	+128	35	− 3	3·90	−1·40	227	+ 43	31	+ 6
Western																		
6. SCOTLAND, WEST	55	11	*	*	*	*	64	− 52	341	+ 25	42	− 6	9·08	−1·38	155	+ 4	22	+ 1
7. ENGLAND, N.W.	57	10	*	*	*	*	66	− 59	395	+ 96	39	− 5	5·22	−1·52	208	+ 51	29	+ 7
8. ENGLAND, S.W.	54	7	*	*	*	*	94	−101	361	+122	40	− 4	5·36	−2·88	239	+ 52	33	+ 7
9 IRELAND, NORTH	55	14	*	*	*	*	136	− 27	233	− 29	53	+ 2	7·23	−0·47	146	− 15	21	− 2
10. IRELAND, SOUTH	59	15	*	*	*	*	194	− 42	234	+ 34	48	+ 2	6·13	−2·74	193	+ 8	27	+ 1
11. ENGLISH CHANNEL	55	25	*	*	*	*	207	− 65	151	+ 56	44	− 5	6·01	−0·95	275	+ 44	37	+ 6

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				Names of Stations.
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*44*	*20th*	*16*	*16th*	*39·4*	*29·8*	*34·5*	—	*0*	*53*	7	*0·84*	—	*21·7*	*28*	—	—	*Balta Sound.*
	a Sumburgh Head ..	43	20th	24	17th	38·9	29·9	34·3	- 4·1	0	54	6	0·32	- 0·38	21·8	- 0·7	27	- 1	Deerness.
	a Stornoway	50	19th	22	18th	41·7	29·4	35·4	- 4·0	0	46	7	1·75	+ 0·82	34·0	+11·6	43	+15	Stornoway.
	a Castlebay, Barra Isd.	*48*	*20th*	*30*	*18th*	*43·1*	*34·0*	*38·4*	- *3·8*	*3*	*28*	*6*	*1·01*	—	*24·2*	—	*30*	—	*Castlebay.*
	a Wick	44	20th	24	16th	41·1	30·4	35·6	- 3·7	0	45	7	0·47	- 0·03	*	*	*	*	*
	p Strathpeffer	46	20th	22	17th	40·6	29·6	34·9	- 3·7	0	50	4	0·11	- 0·49	9·5	- 10·4	12	- 13	Strathpeffer.
	p Glencarron .. S	48	20th	24	17th	41·2	28·8	34·8	- 3·2	0	50	3	0·24	- 1·53	*	*	*	*	*
	p Fort Augustus S	47	19th	24	17th	41·6	30·7	36·0	- 3·0	0	42	3	0·11	- 0·72	11·7	- 5·2	15	- 7	Fort Augustus.
	p Fort William S	51	19th, 20th	25	17th	44·6	31·9	38·1	- 2·1	7	36	3	0·12	- 1·40	*	*	*	*	*
1. SCOTLAND, E. .. .. — b, Mainland.	*p* Gordon Castle S	50	20th	24	17th	41·5	29·6	35·4	- 4·6	0	46	3	0·50	- 0·01	*18·7*	—	*24*	—	*Gordon Castle.*
	a Nairn	44	18, 19, 20th	24	17th	40·7	27·9	34·1	- 5·2	0	55	5	0·21	- 0·19	14·9	—	19	—	Nairn.
	a Aberdeen	43	18th, 20th	24	16th	40·3	29·9	35·0	- 4·8	0	49	7	0·74	+ 0·21	23·0	- 2·8	29	- 4	Aberdeen.
	a Balmoral .. S	41	20th	7	17th	38·0	23·7	30·6	- 4·9	0	80	5	1·47	+ 0·83	22·7	—	28	—	Crathes S.
	p Crieff .. .. S	45	20th	27	17th	41·4	31·2	36·2	- 3·6	0	41	5	0·50	- 0·19	26·4	—	33	—	Balruddery
	a Leith	49	19th	27	17th	43·6	32·3	37·8	- 3·4	4	34	5	0·20	- 0·15	24·6	+ 4·3	31	+ 5	Edinburgh.
	a West Linton.. S	47	20th	17	16th	40·2	27·2	33·5	- 4·3	0	60	4	0·12	—	*32·6*	—	*41*	—	*West Linton.*
	p Marchmont .. S	48	20th	18	17th	41·7	29·0	35·2	- 3·4	0	48	6	0·64	+ 0·09	22·8	- 0·9	29	- 1	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	54	20th	21	17th	42·3	30·1	36·0	- 3·8	1	40	3	0·68	+ 0·13	32·0	—	40	—	Cockle Park.
	a Shields	54	20th	24	17th	42·7	29·6	36·0	- 4·3	2	43	5	0·35	- 0·07	*20·4*	+ *0·9*	*26*	+ *1*	*Newcastle.*
	p Durham	55	20th	22	17th	42·9	31·3	36·9	- 2·7	3	37	2	0·23	- 0·15	23·7	- 0·8	29	- 1	Durham.
	p Rounton .. M	55	20th	23	17th	43·9	31·0	37·3	- 2·1	5	39	6	0·25	- 0·16	*	*	*	*	*
	p Scarborough.. M	54	20th	26	17th	44·6	33·0	38·6	- 2·3	7	32	4	0·64	+ 0·23	34·3	—	42	—	Scarborough.
	p York	58	20th	22	17th	45·9	31·6	38·5	- 2·3	11	37	3	0·14	- 0·22	20·5	- 1·3	25	- 2	York.
— b, South.	*a* Spurn Head	48	20th	27	17th	41·4	31·7	36·4	- 4·3	0	39	4	0·19	- 0·11	*	*	*	*	*
	a Lincoln	56	20th	21	17th	45·2	29·3	37·0	- 4·1	9	45	2	0·20	- 0·15	17·7	—	22	—	Skegness.
	a Fulbeck	56	20th	22	17th	44·3	30·0	36·9	- 4·1	6	42	4	0·20	- 0·15	26·4	—	33	—	Rauceby.
															17·5	—	*22*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	56	20th	24	17th	44·9	32·4	38·5	- 1·7	8	35	4	0·21	—	21·8	—	27	—	Cromer.
	p Hillington .. M	55	20th	24	17th	44·4	32·3	38·2	- 2·4	7	35	5	0·48	+ 0·06	14·4	- 10·6	18	- 13	Hillington.
	a Yarmouth	48	19th	26	17th	41·7	32·0	36·7	- 3·2	0	37	5	0·66	+ 0·33	19·7	—	24	—	Yarmouth.
	a Norwich	54	20th	22	17th	44·0	31·9	37·8	- 2·6	6	36	7	0·60	—	*	*	*	*	*
	p Geldeston	54	19th	23	17th	44·3	32·4	38·2	- 2·6	6	34	7	0·69	+ 0·34	16·6	- 10·8	21	- 13	Geldeston.
	p Cambridge	56	19th, 20th	22	17th	45·5	31·8	38·5	- 2·8	10	37	5	0·29	- 0·03	18·6	- 8·2	23	- 10	Cambridge.
— b, South.	*a Felixstowe* ..	*45*	*19th, 20th*	*20*	*17th*	*40·4*	*31·1*	*35·6*	- *5·4*	*0*	*45*	*6*	*0·73*	—	*21·2*	—	*26*	—	*Felixstowe.*
	a Clacton-on-Sea ..	45	19th, 20th	24	17th	40·0	30·9	35·3	- 5·2	0	47	6	0·43	—	20·3	—	25	—	Clacton.
	a Rothamsted ..	53	19th, 20th	21	17th	43·7	30·9	37·1	- 3·2	5	39	6	0·53	+ 0·11	15·8	- 9·6	20	- 12	Rothamsted.
	a Shoeburyness ..	*52*	*19th*	*24*	*17th*	*42·3*	*32·3*	*37·2*	- *4·8*	1	*33*	*6*	*0·37*	+ *0·11*	*15·9*	—	*20*	—	*Southend.*
	p Tottenham	53	19th, 20th	27	16th, 17th	44·2	33·9	38·9	- 2·6	6	29	5	0·28	—	12·6	—	16	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	55	20th	22	16th	42·3	30·4	36·2	- 3·1	1	40	5	0·28	- 0·20	28·9	—	36	—	Harrogate.
	a Bawtry	57	20th	21	17th	45·7	31·4	38·3	- 2·9	10	38	2	0·12	- 0·22	24·5	+ 2·5	30	+ 3	Worksop.
	p Buxton .. M	*49*	*20th*	*15*	*16th*	*40·1*	*27·5*	*33·6*	- *4·0*	*0*	*59*	*5*	*0·49*	- *0·44*	*30·4*	—	*38*	—	*Buxton.*
	a Nottingham ..	55	19th, 20th	20	18th	44·1	30·0	36·8	- 4·0	6	42	4	0·16	- 0·19	23·1	—	29	—	Nottingham.
	p Birmingham, Edgbsn	53	20th	24	17th	43·4	31·6	37·3	- 3·0	4	36	3	0·29	- 0·11	11·9	—	15	—	Birmingham.
	a Raunds .. M	57	19th	20	17th	45·3	30·0	37·4	- 3·0	9	43	5	0·32	—	*	*	*	*	*
	a Oxford	54	19th	23	17th	44·7	31·0	37·7	- 3·8	8	39	5	0·10	- 0·22	20·0	- 4·6	25	- 6	Oxford.
— b, West.	*a* Cheadle .. M	50	19th, 20th	23	16th, 17th	42·3	28·5	35·2	- 4·3	1	46	4	0·24	- 0·26	30·5	—	38	—	Sheffield.
	p Shrewsbury	56	20th	21	17th	46·1	31·2	38·4	- 3·4	11	39	5	0·31	—	*	*	*	*	*
	a Hereford .. M	53	19th	20	16th	45·4	29·4	37·2	- 4·3	10	45	5	0·51	+ 0·12	*	*	*	*	*
	a Cirencester	52	19th, 20th	17	17th	43·9	29·7	36·6	- 3·4	5	43	3	0·35	- 0·11	23·6	- 1·9	29	- 2	Cirencester.
	a Bath	53	19th	20	17th	45·9	30·6	38·3	- 3·8	11	41	3	0·20	- 0·27	29·4	—	36	—	Bath.
															23·7	—	*29*	—	*Ramsgate.*
5. ENGLAND, S.E... .. — a, East.	*p* Kew	55	19th	26	17th	45·0	34·3	39·5	- 2·1	8	28	5	0·33	- 0·03	16·4	- 6·3	20	- 8	Kew.
	a Marlborough ..	51	19th	13	17th	44·0	29·0	36·3	- 3·8	6	46	5	0·29	- 0·25	18·0	- 4·7	22	- 6	Marlborough.
	a Margate	52	20th	27	17th	42·7	33·5	38·0	- 3·4	2	30	5	0·70	+ 0·36	22·7	- 3·9	28	- 5	Margate.
	a Wisley, Surrey ..	55	19th	25	17th	44·6	33·7	39·0	- 3·2	7	30	4	0·42	—	19·2	—	24	—	Wisley.
	a Swarraton .. M	53	19th	20	17th	43·8	31·8	37·6	- 2·8	5	36	4	0·57	+ 0·07	27·4	—	34	—	Worthing.
	a Tunbridge Wells M	52	19th	23	17th	42·3	31·8	36·9	- 4·3	1	35	6	0·77	+ 0·27	18·3	- 7·9	23	- 12	Tunbridge Wells.
	a Dungeness	49	19th	23	17th	42·0	30·3	36·0	- 5·5	0	42	7	0·66	+ 0·30	19·8	—	24	—	Littlestone.
	p Hastings	49	19th	28	17th	41·5	34·7	38·0	- 3·9	0	28	6	0·69	+ 0·21	*19·7*	- *10·1*	*24*	- *13*	*Hastings.*
— b, West.	*p* Southampton ..	55	19th	24	17th	45·9	34·4	40·0	- 3·3	11	28	5	0·35	- 0·14	26·8	- 0·7	33	- 1	Southampton.
	a Ventnor	51	19th, 20th	29	15th, 16th	47·0	34·0	40·3	- 3·0	14	30	6	0·46	0·00	34·5	+ 3·5	43	+ 4	Ventnor.
															20·0	- 9·3	25	- 12	Eastbourne.
LONDON	*a Westminster* ..	*54*	*19th, 20th*	*26*	*17th, 18th*	*45·3*	*32·9*	*38·9*	- *3·0*	*9*	*33*	*5*	*0·31*	- *0·07*	*12·6*	- *3·0*	*15*	- *4*	*Westminster.*
	a Greenwich	*57*	*19th*	*23*	*17th*	*45·3*	*33·1*	*39·0*	- *3·8*	*9*	*32*	*5*	*0·27*	- *0·10*	*17·7*	- *3·8*	*22*	- *5*	*Greenwich.*
6. — a, SCOTLAND. W. .. — b, ISLE OF MAN ..	*p* Laudale	53	20th	28	17th, 18th	44·1	32·4	38·1	- 2·8	6	34	5	0·71	- 0·76	*	*	*	*	*
	a Poltalloch .. S	50	20th	24	16th	44·3	30·2	37·0	- 3·3	6	41	4	0·41	- 0·39	*	*	*	*	*
	p Glasgow	49	19th	30	16th, 17th	43·5	34·1	38·7	- 1·3	4	28	3	0·22	- 0·34	22·1	+ 4·1	28	+ 5	Glasgow.
	p Rothesay .. S	51	19th	27	17th	46·0	34·9	40·3	- 0·6	11	27	4	0·68	- 0·07	*	*	*	*	*
	a Kilmarnock ..	51	18th	20	16th	45·1	31·3	38·0	- 2·2	9	38	3	0·39	—	*20·6*	—	*26*	—	*Kilmarnock.*
	a Colmonell ..	51	19th	20	16th	45·9	31·9	38·7	- 2·5	11	37	5	0·98	+ 0·22	*	*	*	*	*
	p Dumfries ..	52	20th	25	16th, 17th	46·2	32·4	39·1	- 1·4	12	35	6	1·31	+ 0·66	*	*	*	*	*
	p Cally, Gatehouse S	50	19th, 20th	19	16th	48·0	30·6	39·0	- 1·2	17	42	4	0·76	- 0·11	*	*	*	*	*
	p Douglas	50	20th	28	16th	43·8	34·2	38·9	- 2·5	5	28	5	0·38	- 0·28	40·1	+11·6	50	+14	Douglas.
															37·3	—	46	—	Hoylake.
7. — a, ENGLAND, N.W... — b, NORTH WALES ..	*p* Aspatria	51	19th, 20th	24	16th	44·0	32·7	38·2	- 1·4	6	33	6	0·36	- 0·30	31·1	—	38	—	Aspatria.
	p Newton Rigg ..	51	20th	22	17th	42·8	31·2	36·8	- 2·0	2	37	5	0·38	- 0·21	30·0	+ 6·2	37	+ 8	Newton Rigg.
	p Stonyhurst	53	20th	23	16th	43·8	32·3	37·9	- 1·9	5	34	2	0·10	- 0·71	23·8	+ 0·8	29	+ 1	Stonyhurst.
	p Blackpool .. M	54	19th	24	16th	44·8	32·9	38·7	- 2·0	8	33	4	0·21	- 0·33	39·3	+15·9	49	+20	Blackpool.
	p M'nch'ster,Prestwich	56	20th	19	16th	44·8	31·6	38·0	- 2·4	8	37	3	0·20	- 0·37	*22·1*	+ *4·3*	*27*	+ *5*	*Prestwich.*
	a Liverpool (Bidston)	53	19th, 20th	28	16th, 17th	44·4	32·7	38·4	- 4·0	7	33	3	0·13	- 0·29	*41·0*	—	*51*	—	*Liverpool.*
	a Hawarden Bridge ..	56	20th	25	16th	45·7	33·3	39·3	- 3·0	10	32	4	0·27	- 0·07	*36·9*	+*12·6*	*46*	+*16*	*Southport.*
															44·7	—	*55*	—	*Rhyl.*
	p Llandudno .. M	54	19th	29	16th, 17th	45·3	35·1	40·1	- 2·4	9	26	5	0·41	- 0·09	39·4	+15·0	49	+19	Llandudno.
	a Holyhead	54	19th	31	16th	45·9	35·9	40·8	- 1·6	11	23	6	0·38	- 0·20	39·7	—	49	—	Aberdovey.
	p Bettws-y-Coed ..	56	19th	24	16th, 17th	47·1	33·9	40·3	- 1·8	14	31	7	0·83	—	29·4	—	36	—	Bettws-y-Coed.
															32·3	—	40	—	Aberystwyth.
8. — a, SOUTH WALES .. — b, ENGLAND, S.W. ..	*a* Llangammarch Wells	52	19th, 20th	12	17th	44·8	26·2	35·2	- 4·8	8	55	6	1·30	—	29·2	—	36	—	Llangammarch Wells.
	a Pembroke	49	18th, 19th	29	16th	44·6	34·7	39·5	- 3·0	7	26	7	0·82	+ 0·31	33·1	+ 4·8	41	+ 6	Pembroke.
	a Cardiff	52	19th	24	17th	45·5	31·3	38·2	- 4·2	10	39	6	0·57	- 0·12	*31·2*	—	*39*	—	*Cardiff.*
															31·6	+ *1·4*	*39*	+ *2*	*Tenby.*
	a Clifton	53	19th	25	16th	45·6	33·3	39·3	- 2·5	10	32	4	0·41	- 0·11	*25·9*	—	*32*	—	*Clifton.*
	a Shaftesbury .. M	50	19th	24	16th	43·0	31·5	37·1	- 3·0	3	36	4	0·31	- 0·20	*	*	*	*	*
	a Arlington	53	19th	25	16th	45·0	32 0	38·3	- 2·3	S	35	7	0·87	+ 0·01	37·6	+ 8·4	46	+10	Newquay.
	a Cullompton .. M	51	19th	23	16th, 17th	46·6	33·2	39·7	- 2·5	13	33	6	0·73	+ 0·16	25·7	- 0·6	32	- 1	Cullompton.
	a Portland Bill ..	49	19th	30	16th	45·0	36·0	40·4	- 2·3	8	22	3	0·21	—	*36·1*	—	*45*	—	*Weymouth.*
	p Plymouth	53	18th, 19th	27	17th	47·9	36·3	41·9	- 1·6	17	23	6	0·81	+ 0·21	36·1	+ 7·4	45	+ 9	Plymouth.
	p Falmouth	54	18th	30	16th, 17th	46·2	36·3	41·1	- 2·9	12	22	6	1·51	+ 0·78	38·6	+ 8·4	48	+10	Falmouth.
															34·9	+ *4·5*	*43*	+ *6*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	48	19th, 20th	31	17th, 18th	43·1	35·1	39·0	- 2·4	3	24	6	0·34	- 0·16	*	*	*	*	*
	a Blacksod Point ..	50	18th, 19th	32	17th	46·7	36·9	41·7	- 1·5	13	20	6	0·79	- 0·08	*	*	*	*	*
	p Markree Castle ..	54	19th, 20th	23	17th	48·3	30·3	39·0	- 2·1	18	43	5	0·79	+ 0·07	26·5	+ 3·6	33	+ 4	Markree Castle.
— b, East.	*p* Armagh	53	20th	27	16th, 17th	45·9	32·9	39·2	- 1·9	11	33	6	0·87	+ 0·37	25·8	+ 3·3	32	+ 4	Armagh.
	a Donaghadee	53	20th	27	17th, 18th	45·0	35·3	40·0	- 1·9	8	25	3	0·84	+ 0·35	*	*	*	*	*
10. IRELAND, S. — a, East.	*p* Dublin, City.. ..	52	18th	29	16th, 17th	47·0	34·9	40·8	- 2·4	14	27	5	0·63	+ 0·20	35·7	+ 8·9	44	+11	Phœnix Park.
	a Kilkenny	54	19th	23	17th	47·9	32·3	39·9	- 2·1	17	37	5	0·61	+ 0·11	*	*	*	*	*
	a Waterford	53	19th	28	17th	48·3	35·6	41·8	- 1·0	18	26	6	0·56	- 0·06	*	*	*	*	*
	a Birr Castle	53	18th, 19th	23	16th	48·6	31·1	39·6	- 1·8	18	41	5	0·63	+ 0·19	31·0	+ 6·8	38	+ 8	Birr Castle.
— b, West.	*a* Foynes	54	18th	29	16th	48·8	36·3	42·4	- 0·9	27	16	7	0·79	+ 0·16	*	*	*	*	*
	a Cahir .. .. M	53	19th	25	17th	46·5	35·6	40·9	- 1·6	13	25	6	0·90	—	*	*	*	*	*
	a Killarney	55	18th	28	17th	51·4	36·4	43·7	- 0·4	35	16	6	1·17	+ 0·12	*	*	*	*	*
	a Valencia	53	18th	31	17th	49·1	38·1	43·4	- 1·3	26	11	7	1·80	+ 0·77	42·4	+15·1	52	+19	Valencia.
	a Roche's Point ..	52	19th	28	17th	47·9	35·4	41·5	- 2·5	17	26	4	1·14	+ 0·49	39·4	—	49	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	55	19th	35	16th, 17th	49·3	39·0	44·0	- 1·5	27	8	6	0·83	+ 0·29	38·7	+ 8·1	48	+10	Scilly.
	a Jersey, St. Aubins ..	55	19th	30	17th	47·6	36·9	42·1	- 2·4	22	14	7	0·55	+ 0·04	38·5	+ 6·1	48	+ 8	St. Heliers.
	a Guernsey	53	19th	33	17th	48·0	37·7	42·7	- 2·0	23	12	7	1·02	+ 0·46	35·1	+ 3·1	43	+ 4	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 24·0 hrs.* (- *4·8 hrs.*), *30 %* (- *6 %*); *Bournemouth, 33·4 hrs., 41 %*; *Bognor, 30·5 hrs., 38 %.*

For notes see opposite page.

	STATION	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	— — ..				
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	38·5
	Crathes	5	14	35·4	37·0
	Balmoral	6	3	—	—
	West Linton	5	11	—	—
	Marchmont ..	5	14	35·6	—
2.	Cockle Park	7	14	35·4	37·5
	Durham	4	21	—	—
	York	—	—	36·1	38·7
	Hull	5	22	36·9	39·9
	Lincoln	—	—	34·9	37·0
	Rauceby	4	24	36·8	40·0
3.	Norwich	5	18	—	—
	Yarmouth	—	—	36·9	40·0
	Lowestoft	3	23	37·0	39·0
	Cambridge	5	22	37·3	39·9
	Clacton-on-Sea ..	5	21	37·4	41·0
	Southend	5	22	36·9	—
	Tottenham	3	22	—	40·2

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
4.	Harrogate	5	18	55·3	37·0
	Huddersfield ..	4	19	34·0	37·6
	Buxton	5	11	33·6	38·1
	Sheffield	5	19	34·6	38·1
	Nottingham	4	20	35·5	36·3
	Birmingham	5	9	36·5	41·0
	Oxford	4	15	—	—
	Hereford	6	12	—	—
	Cirencester	4	20	—	—
5.	Margate	3	25	37·1	38·9
	Greenwich	5	14	—	—
	Westminster ..	5	18	—	—
	Kew	5	15	37·1	40·3
	Canterbury	5	17	36·3	40·8
	Tunbridge Wells ..	5	14	36·1	—
	Wisley	5	20	37·5	39·6
	Worthing	4	20	38·5	41·2
	Portsmouth	3	16	39·2	42·1
6.	Glasgow	4	21	—	—
	Rothesay	—	—	—	40·8
	Colmonel	3	17	—	—
	Dumfries	?	?	—	—
	Douglas	4	20	—	—

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
7.	Aspatria	4	16	—	—
	Newton Rigg ..	4	16	36·5	37·9
	Burnley	5	16	35·0	37·8
	Southport	4	14	36·9	38·3
	Manchester City ..	4	20	35·6	39·3
	Bettws-y-Coed ..	2	21	37·6	41·0
8.	Llangammarch Wells	6	3	37·7	41·2
	Cardiff	5	15	37·2	39·9
	Clifton	4	21	—	—
	Bath	—	—	—	—
	Plymouth	3	16	40·3	—
9.	Armagh	4	19	39·3	41·9
	Markree	7	12	—	—
10.	Dublin, Trin. Coll. ..	5	16	40·1	42·3
11.	Guernsey, Brooklyn	3	23	40·8	43·2

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	42	42·0
	Kirkwall	41	37	38·5
	Wick	44	44	44·0
SCOTLAND, E.	Cromarty	41	39	40·1
	Pennan Bay	40	38	39·2
	Aberdeen, Cove Bay ..	41	38	39·6
ENGLAND, N.E.	Burnmouth, Berwick ..	40	38	39·0
	Scarborough	39	37	37·5
ENGLAND, E.	Shipwash Lightship ..	40	36	38·0
	Margate	42	35	37·3
ENGLAND, S.E. .. .	Eastbourne‡	40	38	38·4

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	42	40	41·4
	Ballantrae	42	40	41·6
ENGLAND, N.W.	Port Erin	44	41	42·0
	Newquay	45	44	44·3
ENGLAND, S.W.	Plymouth‡	47	45	46·1
	Salcombe	45	41	43·8
IRELAND, N.W.	Sheephaven	45	44	44·3
	Teelin	48	44	45·3
IRELAND, S.W.	Cleggan	47	44	45·0
	Seafield	48	41	45·2
IRELAND, E. . ..	.. ..			

‡ Only one observation each day.

Corrections and Additions for February, 1909.

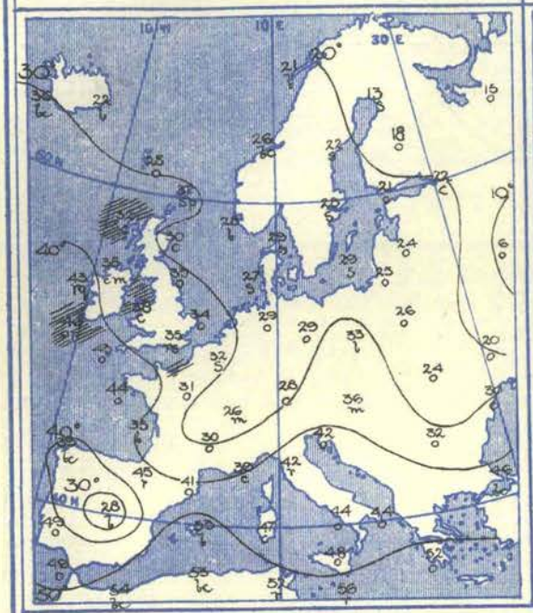
NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit.										Rainfall.			Bright Sunshine.			
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each Day.	Mean for the Week. For whole of each day.	Difference of Daily Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Accumulated Heat for the Week (in Day-degrees). Below 42°	Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 5, p. 42	6. Scotland, W.	—	—	—	—	—	—	—	—	—	—	—	1·80	+0·77	—	—	—	—
No. 8, p. 66	4. Midland Counties.	—	—	—	—	—	25·9	—	—	—	—	—	—	—	—	—	—	—
Station Values.— Additions.																		
No. 5, p. 43	Felixstowe	57	4th	29	31st	47·7	35·9	41·8	+3·4	16	25	2	0·04	—	15·6	—	26	—
No. 7, p. 59	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	—	—	34·5	—	52	—
No. 9, p. 75	Lincoln	40	5th	18	5th	36·9	24·7	30·6	−8·8	0	80	4	1·10	+0·73	—	—	—	—
No. 9, p. 75	Tunbridge Wells	38	6th	17	5th	34·3	21·6	27·8	−11·7	0	99	6	1·90	+1·35	18·5	−2·5	25	−3
Station Values.— Corrections.																		
No. 1, p. 11	Douglas	—	—	—	—	—	39·8	43·4	+2·2	—	6	—	—	—	—	—	—	—
No. 2, p. 19	Douglas	—	—	30	14th	—	35·3	40·7	+0·1	—	26	—	—	—	—	—	—	—
No. 2, p. 19	Kilmarnock .. .	—	—	—	—	42·8	—	37·6	−2·3	2	37	—	—	—	—	—	—	—
No. 3, p. 27	Douglas	—	—	—	—	—	36·4	40·3	−0·4	—	22	—	—	—	—	—	—	—
No. 4, p. 35	Kilmarnock	—	27, 28	—	—	41·5	—	37·3	−2·2	—	33	—	—	—	—	—	—	—
No. 5, p. 43	Durham	—	—	—	—	—	34·5	40·4	+3·1	—	29	—	—	—	—	—	—	—
No. 5, p. 43	Cheadle	—	—	—	—	—	36·1	41·0	+4·1	—	23	—	—	—	—	—	—	—
No. 5, p. 43	Laudale	—	—	—	—	—	—	—	—	—	—	—	3·46	+1·71	—	—	—	—
No. 5, p. 43	Poltalloch	—	—	—	—	47·4	—	41·8	+3·1	15	25	—	—	—	—	—	—	—
No. 5, p. 43	Colmonell	—	—	—	—	42·1	—	39·5	+0·8	—	18	—	—	—	—	—	—	—
No. 5, p. 43	Blackpool .. .	—	—	—	—	—	—	—	—	—	—	—	0·53	−0·04	—	—	—	—
No. 5, p. 43	Holyhead .. .	—	—	—	—	—	—	—	—	—	—	6	0·23	−0·40	—	—	—	—
No. 5, p. 43	Blacksod Point ..	—	—	—	—	—	42·9	46·4	+3·9	31	—	—	—	—	—	—	—	—
No. 5, p. 43	Cahir	—	—	—	—	—	—	—	—	—	—	—	0·11	—	—	—	—	—
No. 6, p. 51	Straiphefter ..	—	—	—	—	—	31·9	37·3	+0·2	—	36	—	—	—	—	—	—	—
No. 6, p. 51	Glencarron ..	—	—	—	—	—	—	—	—	—	—	—	1·66	−0·24	—	—	—	—
No. 6, p. 51	Balmoral ..	46	13th	—	—	41·1	—	34·7	+0·7	0	51	—	—	—	—	—	—	—
No. 6, p. 51	Swarraton ..	—	—	—	—	—	—	—	—	—	—	—	0·41	−0·34	—	—	—	—
No. 6, p. 51	Shaftesbury ..	—	—	—	—	—	31·0	34·6	−3·5	—	52	—	—	—	—	—	—	—
No. 7, p. 59	Shaftesbury ..	—	—	—	—	—	30·4	37·0	−1·4	—	42	—	—	—	—	—	—	—
No. 8, p. 67	Balta Sound ..	49	—	—	—	44·9	—	40·2	—	8	—	—	—	—	—	—	—	—
No. 8, p. 67	Balmoral	—	—	—	—	42·7	—	35·8	+1·5	2	46	—	—	—	—	—	—	—
No. 8, p. 67	Buxton	—	—	—	—	—	—	—	−3·4	—	—	—	—	—	—	—	—	—
No. 8, p. 67	Shrewsbury ..	—	—	—	23, 25	45·3	26·2	35·8	−4·2	9	58	—	—	—	—	—	—	—
No. 8, p. 67	Poltalloch ..	50	23rd	—	—	44·1	—	38·9	−0·1	6	31	—	—	—	—	—	—	—
No. 8, p. 67	Aberystwyth ..	—	—	—	—	—	—	—	—	—	—	—	—	—	26·9	—	38	—
No. 8, p. 67	Shaftesbury ..	—	—	26	26th	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 8, p. 67	Plymouth	—	—	—	—	—	—	—	—	—	—	—	—	—	33·6	+12·6	47	+17
No. 8, p. 67	Ballinacurra ..	—	—	—	—	—	—	—	—	—	—	—	—	—	20·7	—	29	—
No. 9, p. 75	Marchmont ..	—	—	—	—	—	—	—	—	—	—	—	—	—	18·0	− 2·0	25	− 3
No. 9, p. 75	York	—	—	19	1st	—	24·5	30·6	−5·9	0	80	—	—	—	—	—	—	—
No. 9, p. 75	Shaftesbury ..	—	—	—	—	—	24·3	29·2	−9·0	—	85	—	—	—	—	—	—	—

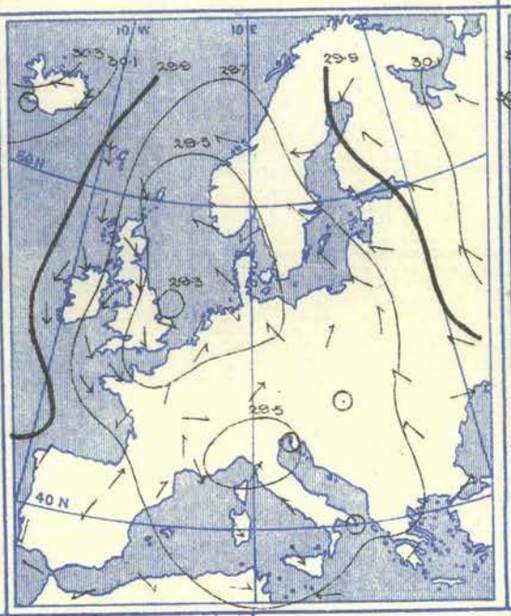
		Grass Min.		Mean Earth Temp.	
		No. of Days.	Lowest reading.	At 1 foot.	At 4 feet.
Station Values.— Additions.					
No. 7, p 60	Lowestoft	6	23	36·3	40·1
No. 8, p. 68	Dublin, Trin. Col.	2	26	41·8	43·9
No. 9, p. 76	Tunbridge Wells	7	1	33·9	—

Sunday, 14th March, 1909.

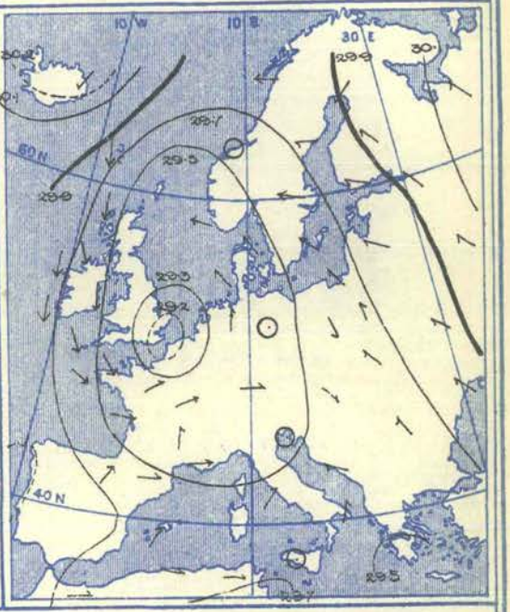
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine in some localities, but generally overcast and unsettled, with sleet or snow in several parts of these Islands and the nearer regions of the Continent, snow in Sweden, and rain at Biarritz, in some parts of Italy, and at La Calle and Tunis. Snow or sleet falling later in almost all parts of the United Kingdom and over the northern half of the Continent, and rain in many southern regions, nearly an inch at Biarritz. Thunder and lightning occurring at Algiers.

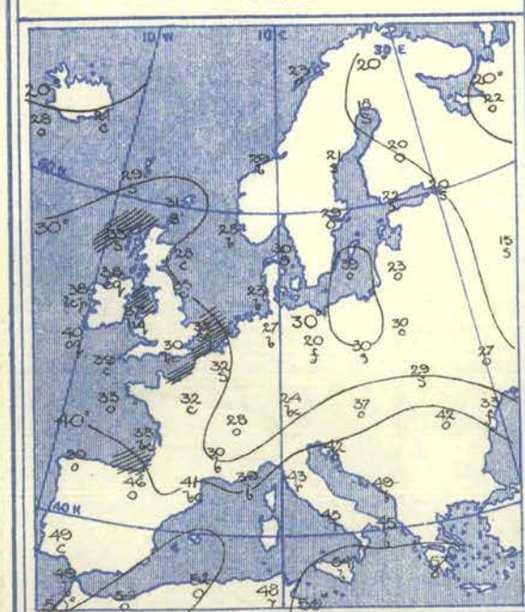
Temperature fallen generally, risen in the north-east and east of our area. Readings in morning below 32° in the east of Scotland and the major portion of the Continent, and below 10° in central Russia. Above 40° in Italy, and above 50° on many shores of the Mediterranean. Maxima during day below 40° in most parts of Great Britain, and only 35° at Nottingham. Not much above 32° in Germany and the east of France, but above 50° in the Spanish Peninsula, most parts of Italy, and in the far south generally, and as high as 70° at Tunis.

Wind in morning showing a very extensive cyclonic circulation around the North Sea, and another movement around the north of Italy. Northerly current moderate to high over these Islands, and that from South-West high at Leghorn. No general change later; becoming high in the Hebrides by evening and strong on the east and south-east coast of England. Increasing to a high wind from South-West at Biarritz.

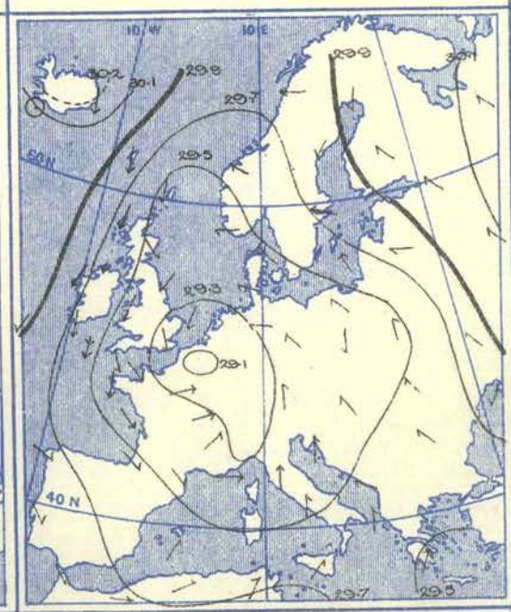
Barometer in morning above 30·3 ins. in the north of Iceland, and above 30·1 ins. in the north-east of our area. Below 29·4 ins. in a complex disturbance covering the North Sea, and below 29·5 ins. in another system over the north of Italy and its neighbourhood. Southern portion of North Sea depression moving southwards later and increasing in depth, and pressure continuing to decrease over the United Kingdom, France, Germany, and Italy.

Monday, 15th March, 1909.

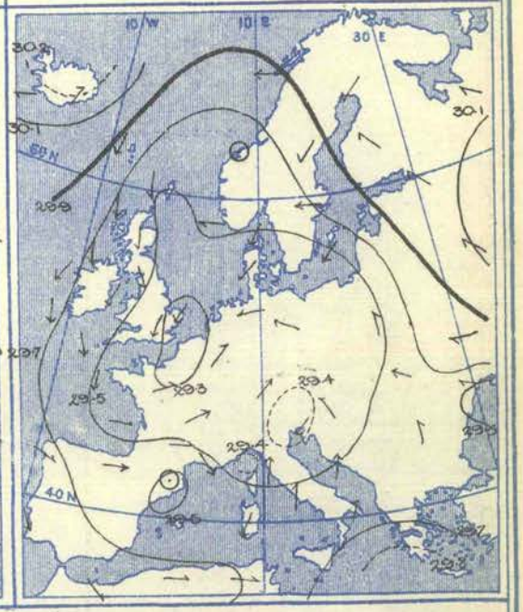
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine at some of our western stations, in the south of France, and at a few places elsewhere. Overcast or very cloudy generally, with rain in some southern localities, and sleet or snow in several parts of these Islands, Belgium, and northern Europe. Snow or sleet later in various parts of this country, heavy falls at Dover, and more or less precipitation occurring over a large portion of the Continent.

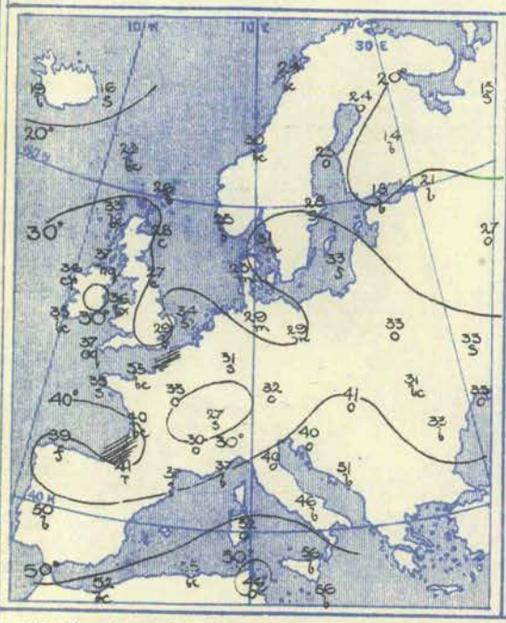
Temperature risen in Russia, fallen generally elsewhere. Readings in morning about 32° over a large part of the United Kingdom and France, and some degrees below it in northern and eastern Europe; above 40° over the southern half of Italy and on the coast of Spain and Portugal, and above 50° in the extreme south of our area. Maxima during day again below 40° in many parts of England and Scotland, and below 35° in places. Thermometer rising to above 50° very generally in the south of Europe, and to above 60° at Athens, Palermo, and on the north coast of Africa.

Wind in morning showing a cyclonic circulation prevailing over the United Kingdom and all the nearer countries of the Continent. Northerly current fresh to strong or high in these Islands, and that from the Westward strong to high in some parts of France and Italy. Some decrease in force in most places during day, but a gale from East setting in at Stockholm.

Barometer in morning ranging from above 30·2 ins. in northern Iceland and above 30·1 ins. in the north-east of Russia to below 29·1 ins. in a large depression having its minimum over the Netherlands. Relatively low in another disturbance over Greece. Main depression remaining stationary during day, but becoming less deep. Little change taking place in the general situation, and high pressure systems maintaining their position.

Tuesday, 16th March, 1909.

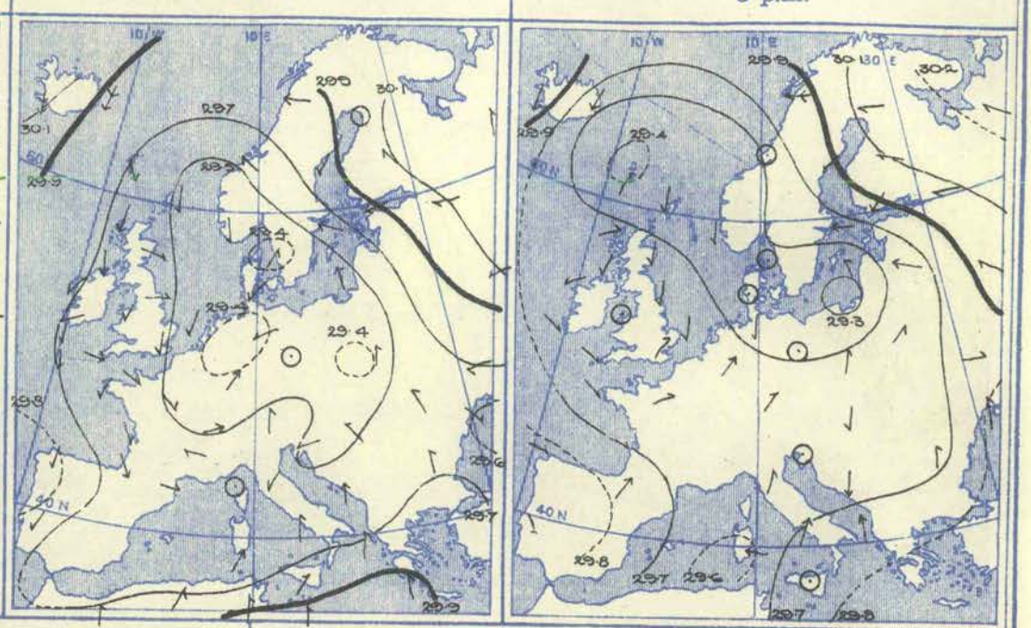
Temperature and Weather. 7 a.m.



Weather in morning fair or fine in most parts of the United Kingdom and Norway, but more variable on the Continent and over the Mediterranean. Some snow falling at a few places in central and northern Europe, and rain in some southern localities. Fine in Algeria and on the coast of Portugal. Some snow showers later in several parts of these Islands, more considerable falls in Sweden and various parts of central Europe, and some rain in Italy.

Temperature fallen somewhat over these Islands, changed little and rather irregularly elsewhere. Morning readings below 32° over the major portion of this country and over most of the mainland of Europe, and below 20° in the north-east of Russia. Below 40° on the Riviera, but above 45° on the shores of the Mediterranean generally, and above 50° in several places. Maxima during day a little below or slightly above 40° over England, and not much above 32° in Poland and other parts of central Europe. Above 50° in Italy, and as high as 66° at Palermo.

Barometer and Wind. 7 a.m. and 6 p.m.

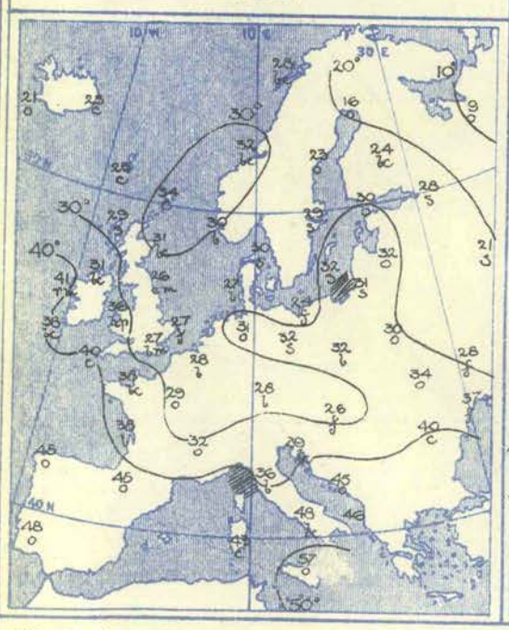


Wind in morning showing a general cyclonic circulation over the greater part of our area, and three separate smaller movements—one over the Skager Rack, another over the Netherlands, and a third over eastern Germany. Light or moderate in force as a whole, but fresh or strong in places in the south of our area, as well as at Bodö, and Northerly current blowing a Northerly gale subsiding. Little change elsewhere, but Easterly wind increasing over the Gulf of Finland, and a gale from East springing up at Bodö.

Barometer in morning above 30·1 ins. in the extreme north-east and north-west of our area; below 29·5 ins. in a very large low pressure system containing three minima, and covering the North Sea, the Baltic, and much of Scandinavia and central Europe. Pressure giving way briskly during day between Scotland and Iceland, and a definite minimum appearing in that region. Polish depression moving northwards to the Baltic and increasing in depth. Barometer falling slowly in Ireland.

Wednesday, 17th March, 1909.

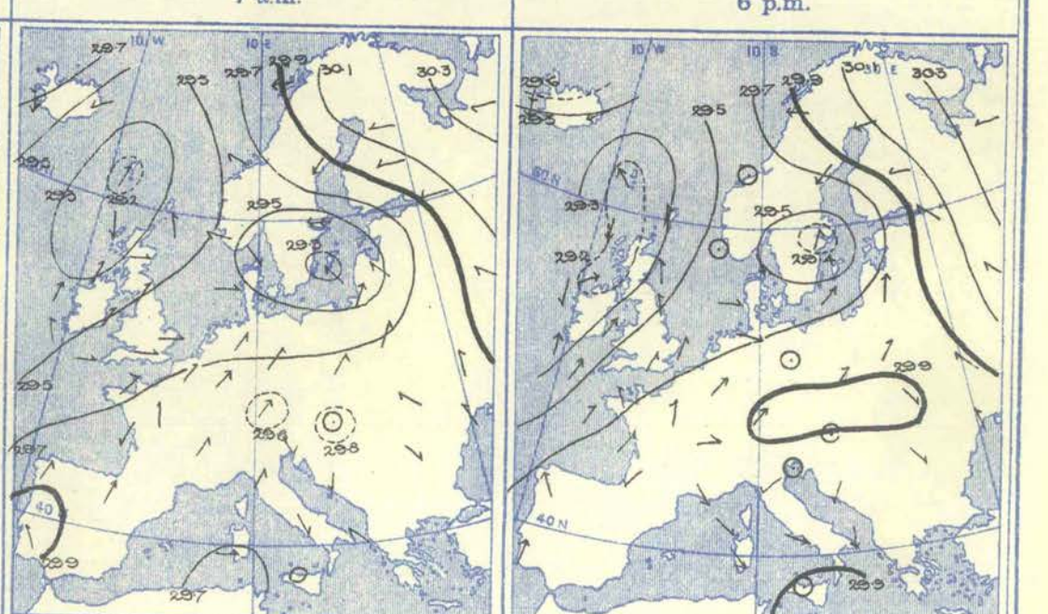
Temperature and Weather. 7 a.m.



Weather in morning fair or fine and bright over the greater part of these Islands, Norway, and in many localities in southern Europe; very cloudy or quite overcast in most other regions, with snow in some parts of Germany and Sweden, as well as in the Hebrides and Iceland. Considerable falls of rain or sleet later in the extreme west and north-west of these Islands, and some slight showers in a few English localities. Snow falling in Sweden and rain at Lisbon.

Temperature fallen at most of our own stations, risen in the west of Ireland and in Norway. Morning readings below 32° over most of the United Kingdom and over a large portion of the Continent; 21° at Bath, 22° at Nottingham, and 9° at Archangel. Above 40° in the south of our area, about 50° in places, and as high as 57° at Palermo. Maxima during day above 40° in most parts of this country, and as high as 52° in central Ireland. Thermometer continuing below 40° at many places in the east of France and in central Europe, but rising to above 50° in the far south, and touching 66° at Cape Béarn.

Barometer and Wind. 7 a.m. and 6 p.m.

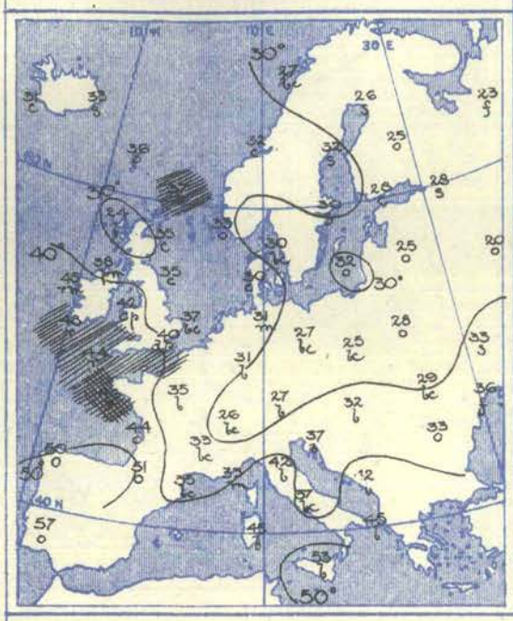


Wind in morning showing a well defined cyclonic circulation over the Baltic region, and also between these Islands and Iceland. Easterly current strong to a gale over the Gulf of Finland and Scandinavia, and that from North-East and East blowing a gale in Iceland. Light or moderate breezes from various directions prevailing over the Mediterranean, and a light to moderate Southerly breeze on the west coast of Ireland. Gale continuing in Iceland throughout the day, but some decrease in force taking place in Scandinavia. Veering to North at Blacksod Point, but remaining Southerly at Valencia Island.

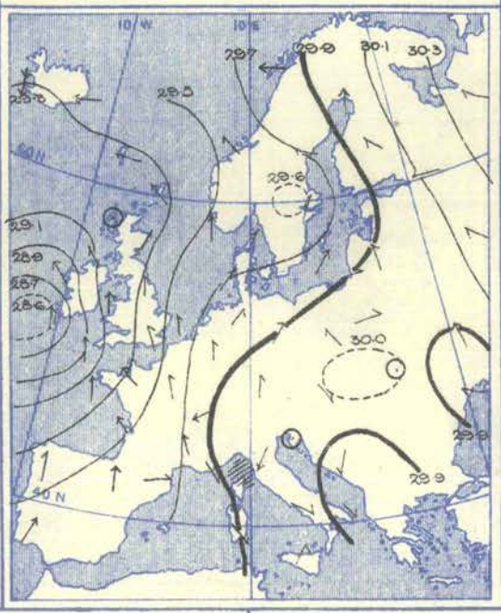
Barometer below 29·2 ins. in a depression having its minimum not far from Thorshavn, and below 29·3 ins. in another system near Wisby. Above 29·9 ins. in the southern half of Spain and Portugal, and above 30·3 ins. over the White Sea. North-western disturbance becoming much modified in form by evening, and extending southwards to the north coast of Ireland. Barometer continuing to fall in Ireland, and a large depression apparently forming off the west coast of that country during night.

Thursday, 18th March, 1909.

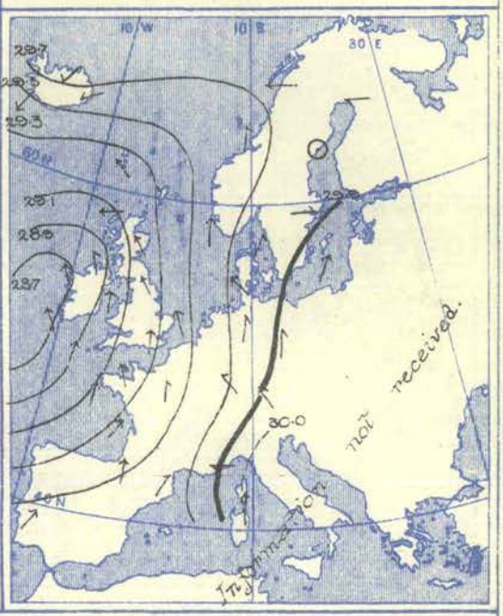
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright in many parts of Scotland, France, Germany, and the north of Italy; mostly overcast in England, Ireland, and Brittany, with rain in places, and overcast, with snow, in Sweden. About 0·5 in. of rain later at Valencia Island and also at Nice, smaller amounts over the United Kingdom and western Europe generally, and some snow in Scandinavia.

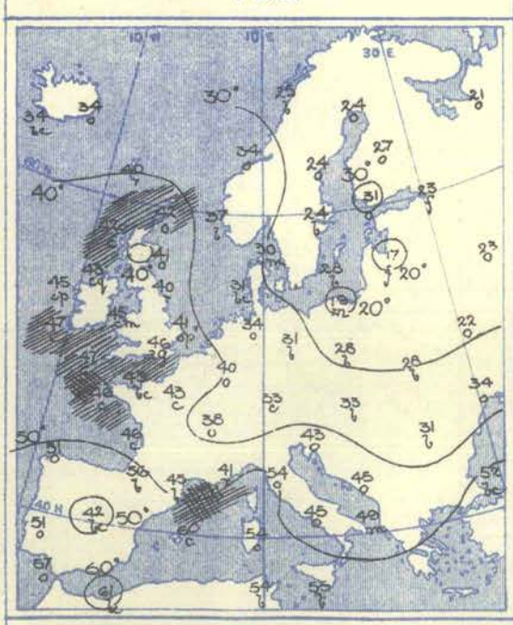
Temperature risen quickly in Ireland and England, and rather decidedly in the west and north of France, as well as in Sweden. Morning readings above 45° in the south of Ireland, and about 40° in some parts of England, but 27° at Nairn and 24° at Stornoway. Above 50° in the far south and south-west of our area, but below 32° over the central countries and the east of France, and only 35° at Perpignan. Maxima during day about 50° in the south-west and west of these Islands, and only a little lower on the south coast and in London, but not much above 40° in the east. Thermometer rising to 63° at Biarritz and to nearly 60° on the Riviera.

Wind in morning Southerly to South-Easterly over our Islands; fresh to high on various parts of our south and west coasts and over the Bay of Biscay, and blowing a gale at Roche's Point. Light anticyclonic airs prevailing over central Europe, and a feeble cyclonic circulation over Scandinavia. Strong breezes to strong gales from East and North-East general in Iceland. Not much change in direction over the western countries during day, but gale subsiding at Roche's Point and also in Iceland.

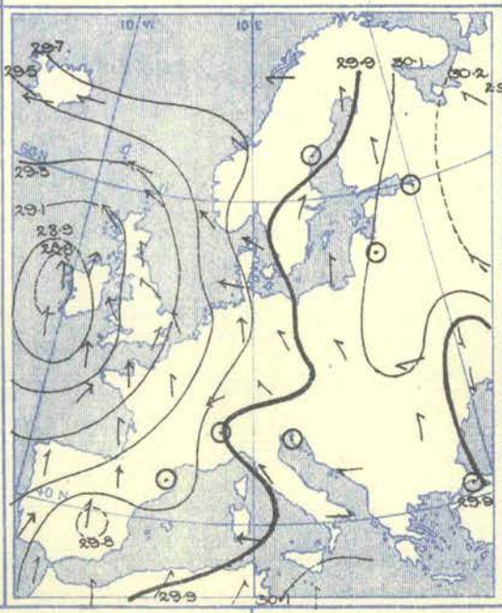
Barometer in morning ranging from above 30·0 ins. over Russia and Poland to below 29·6 ins. in a depression over central Sweden, and to below 28·6 ins. in a large system having its minimum off the south-west of Ireland. Gradient rather steep to steep over the western half of England and over Ireland, and also over the Bay of Biscay. Pressure increasing later in the south of Ireland, but decreasing over these Islands as a whole. Cyclonic centre remaining on the Atlantic. A recovery of pressure taking place in Iceland.

Friday, 19th March, 1909.

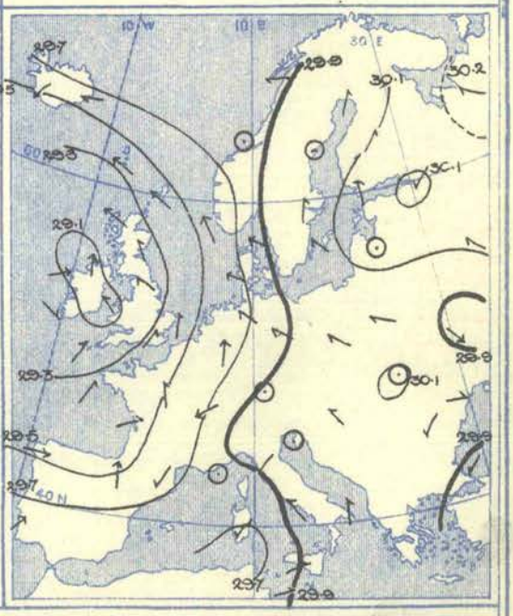
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and unsettled over these Islands and their neighbourhood, with rain in several places. Cloudy or overcast in most other regions, with rain at Nice and snow at Haparanda. Rain falling later in this country, France, the Netherlands, as well as in various parts of the Italian and Spanish Peninsulas, and more than 2 ins. at Constantinople.

Temperature fallen in Sweden, risen in the western countries. Readings in morning above 45° in many parts of England and Ireland, and above 50° in the south-west of France and on several shores of the Mediterranean, as well as at Constantinople. Much below 32° in the north and north-east of our area. Maxima during day between 50° and and 55° over a large portion of England and Ireland, above 60° in many southern localities, and as high as 66° at Biarritz, 67° at Palermo, and 72° at Cape Béarn.

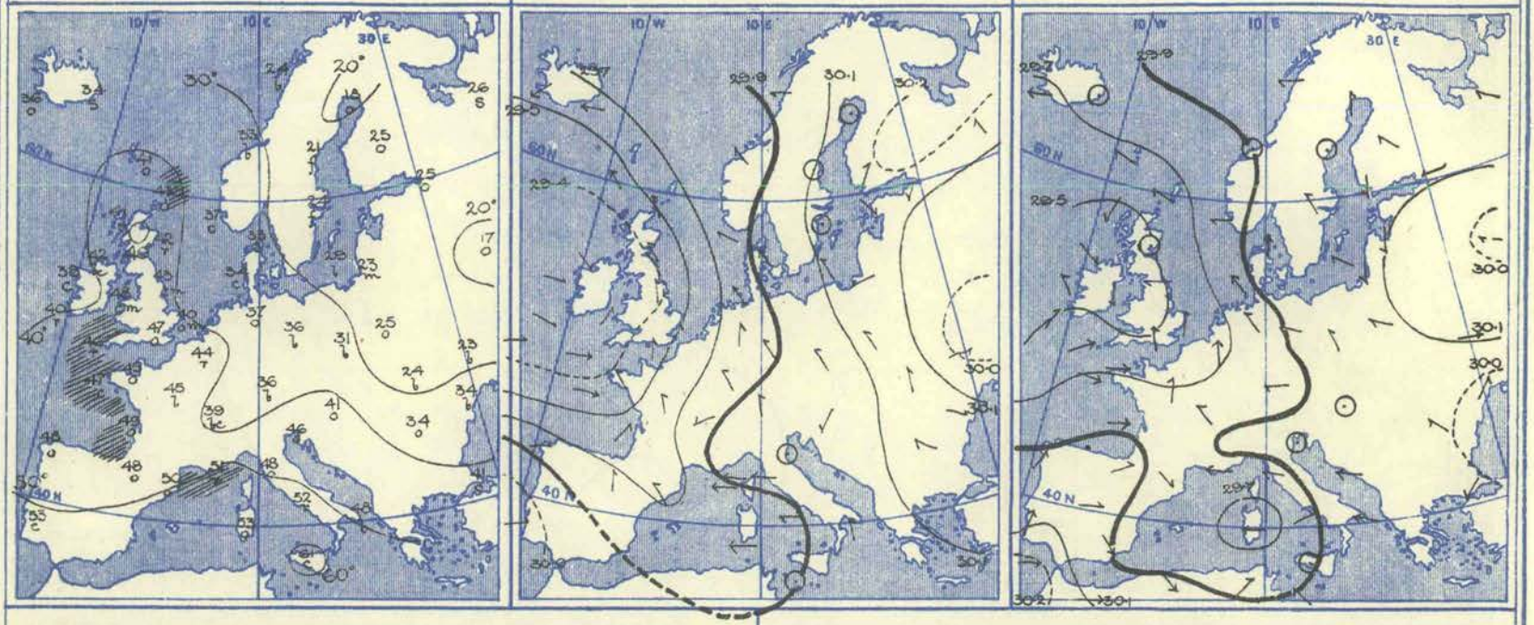
Wind in morning light to fresh or strong from South and South-East over France and this country, and moderate or fresh from the Eastward in Iceland. North-Westerly on the Atlantic some distance to the westward of Valencia. Light or moderate breezes from variable directions prevailing over the Mediterranean, and a cyclonic movement over the south of Russia. No great change later; North-Westerly current extending to the west and south of Ireland by evening

Barometer in morning above 30·2 ins. in the north of Russia; below 29·9 ins. in a depression over Little Russia, less than 29·8 ins. in a shallow disturbance over the Mediterranean, and below 28·8 ins. in another system over the west of Ireland and the adjacent part of the ocean. Last-mentioned disturbance moving eastwards later and becoming less deep. Pressure increasing briskly in the west of Ireland and slowly over these Islands generally.

Saturday, 20th March, 1909.

Temperature and Weather. — 7 a.m.

Barometer and Wind. — 7 a.m. | 6 p.m.



Weather in morning fair or fine in a few localities, but generally very cloudy or overcast, with rain in several regions on the Continent, and showers in this country. Snow falling at Archangel and on the south coast of Norway. Slight rain later at nearly all our own stations, and heavier amounts on some parts of the Continent. As much as 1·1 in. at Nice, and 1·6 in. at the Helder.

Temperature risen in most regions, fallen in Ireland and central Scotland. Morning readings above 50° in the far south of our area, and above 45° in several parts of England. Below 32° over the east and north of Europe, and as low as 17° at Moscow. Rising later to about 50° over a large part of England and Ireland, and touching 55° at Nottingham. Maxima above 50° at most French stations, 60° at Brussels, and 61° at Frankfort. Thermometer only reaching 45° in the east of England, and remaining below that figure in the north-east of Scotland.

Wind in morning mainly Southerly to Westerly over France and England, and South-Easterly to Easterly in Scotland and Scandinavia. Light or moderate generally, but a gale prevailing at Oxö. A moderate to high Easterly wind general in Iceland. Veering to the Westward over the English Channel and the Bay of Biscay during day, but little change of a general character. Some increase in force from the Eastward in the west of Iceland. A well-marked cyclonic circulation setting in over the Mediterranean. Westerly current strong to a gale in Algieria and the south of Spain.

Barometer in morning above 30·2 ins. in the north-east of our area, and above 30·0 ins. in the south-west. Below 29·4 ins. in a shallow depression covering most of this country, and below 30·0 ins. in a large depression over the southern part of Russia. Pressure increasing over these Islands and their neighbourhood during day, but a brisk fall taking place on our extreme south-west coasts during night. A decided rise setting in over the south-west of France.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	March 15th, 10.5 a.m. to 11.28 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	73° 90% 350°, 7	72° 90% 0°, 12	71° 95% 10°, 15					70·5° 95% 10°, 15	650	Very irregular wind. Owing to defect in steam boiler, the ascent could not be continued.
2	March 15th, 1.25 p.m. to 4.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	73° 72% 360°, 6	72° 74% 360°, 8	72° 75% 360°, 9	67° 89% 360°, 14	65° 87% 360°, 12	60° 75% 360°, 12		59° 65% 360°, 12	2,160	Fine in early morning, overcast later. Ground wind very variable. Lower clouds reached at 1,710 m.
3	March 16th, 4.3 p.m. to 4.27 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	73° 85% 360°, 1	72° 83% 360°, 3						72° 82% 360°, 4	480	Overcast, calm. Gentle breeze above preventing balloon from rising.
4	March 17th, 2.45 p.m. to 5.45 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	76° 86% 202°, 5	75° 86% 204°, 7	75° 86% 206°, 8	70° 90% 213°, 12	66° 97% 208°, 11	63° 98% 202°, 14		60° 87% 236°, 17	2,470	Fine and bright, overcast at intervals. Light air in morning, increasing later; very variable. Uniform temp. gradient. Lower clouds at about 1,980 m.
5	March 18th, 12.9 p.m. to 12.16 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	76° 98% 157°, 16	75° 97% 157°, 18	75° 97% 157°, 19	72° 97% 157°, 24				71° 100% 157°, 28	1,340	Dull, overcast and wet. Fresh gale. Kite raced out, and on stopping wind ripped up sails and kite dropped; instrument recovered. Data only given for ascent. Clouds reached at 1,220 m.
6	March 19th, 11.45 a.m. to 4.45 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	80° 99% 157°, 6	79° 99% 161°, 9	79° 99% 163°, 10	76° 99% 186°, 18	74° 87% 191°, 15	72° 79% 202°, 14	68° 81% 202°, 13	67° 84% 202°, 13	2,620	Dull, overcast, moderate breeze. Upper wind variable. Uniform temp. gradient. Lower clouds at 1,220 m.
7	March 19th, 3.28 p.m. to 4.10 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	83° 85% 180°, 8	82° 90% 180°, 12	79° 100% 180°, 16	76° 100% 190°, 17					1,000	Heavy rain at 4.10 p.m., just as kite was landed, and the wind then dropped. Temp. fell 2° and the wind backed during the ascent.
8	March 20th, 7.51a.m. to 9.15 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	79° 98% 168°, 4	78·5° 93% 180°, 6	78·5° 91% 183°, 7					77·5° 80% 202°, 10	750	Fine and bright throughout day. Variable light breeze. Only one attempt at flight was successful.

APPARATUS USED IN THE KITE ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8
No. of Kites	1	2	—	2	1	2	1	1
Area of Surface (sq. metres) ..	7	14·1	1·8	14·1	6·4	14·1	7	7·1
Capacity of Balloon (cub. metres)	—	—	1·8	—	—	—	—	—
Length of Wire (metres) ..	600	3,050	460	3,700	2,130	4,750	600	700

63, Victoria Street, London, S.W. *March 24th, 1909.*

W. N. SHAW, *Director.*

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 12. TWELFTH WEEK, SUNDAY MARCH 21ST TO SATURDAY MARCH 27TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—The weather was generally very unsettled, with much cloud and frequent falls of rain, but in the north of Scotland the rainfall was light. A good deal of fog or mist prevailed on the coasts and at some places inland early in the week. Thunder was heard at Dublin on Saturday afternoon.

Temperature was above the average except in Scotland E., but the divergence from the normal was not large. The highest of the maxima were recorded on rather variable dates, and ranged from 59° in England N.W. to 50° in Scotland E. The lowest of the minima, which were registered at most stations either on the 21st or 27th, varied from 25° in the Scottish districts and in England S.E. to 30° in England E. and N.E., and to 33° in the English Channel. The lowest grass readings reported were 13° at Llangammarch Wells, 20° at Buxton, Newton Rigg and Dublin, and 21° in several other isolated localities.

Mean Temperature of the Sea.—Except on the south-west coasts of England and Ireland the water was colder than during the corresponding week of last year. The actual values for the week ranged from 48°·5 at Seafield and 47°·7 at Plymouth to about 41° along the east and north-east coasts of Great Britain generally, and to 39°·2 at the Shipwash Lightship.

Rainfall was much less than the normal in Scotland N. and rather less in Scotland W., but above it in all other districts, the excess being large in several parts of England and the south of Ireland.

Bright Sunshine was less than the average over the whole Kingdom except in Ireland N. The percentage of the possible duration ranged from 31 in England N.W. and 30 in Ireland N. and the English Channel to 22 in the Midland Counties, 17 in Scotland N. and 13 in Scotland E.

Barometer and Wind.—During nearly the whole of the week depressions from the Atlantic either extended slowly or passed directly over the United Kingdom, while the barometer was relatively high both in the Icelandic region and the Spanish Peninsula. The chief system appeared off the west of Ireland on Wednesday and reached the North Sea on Thursday. As it increased considerably in depth during its passage across this country the wind blew a very strong breeze or high wind from between South-West and West on our southern coasts, and a fresh to strong Easterly or North-Easterly breeze in the north, while in its rear on Friday a moderate to strong breeze from North and North-West was general. At the end of the period another disturbance was extending over the country from the Atlantic, and the wind had returned to South-West or South.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 84.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Unusual	Unusual	Moderate	Unusual	Moderate	Moderate
	Rainfall ...	Very light	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Very heavy	Moderate	Heavy	Heavy
	Sunshine ...	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.
Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 3 weeks from Mar. 7th, 1909.	Warmth ...	0 * 1	0 * 3	0 * 2	0 * 0	0 * 2	0 * 2	1 * 1	1 * 2	0 * 2	1 * 1	0 * 2	0 * 1
	Rainfall ...	0 * 2	2 * 0	* 0	2 * 0	1 * 0	1 * 0	0 * 1	1 * 1	1 * 0	0 * 1	1 * 1	3 * 0
	Sunshine ...	0 * 1	0 * 2	0 * 2	0 * 3	0 * 2	0 * 2	1 * 2	1 * 1	1 * 1	0 * 1	1 * 1	0 * 2

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

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UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWELFTH WEEK—March 21st to 27th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	53	25	45·9	35·7	40·6	+ 0·6	11	− 3	23	− 5	4	− 2	0·24	−0·79	14	− 8	17	−10
Eastern																		
1. SCOTLAND, EAST	50	25	44·4	34·3	39·2	− 1·0	7	− 13	28	− 3	4	0	0·77	+0·25	11	− 16	13	−20
2. ENGLAND, N.E.	55	30	47·6	36·1	41·7	+ 0·4	16	− 6	24	− 1	5	+ 1	0·76	+0·39	17	− 13	20	−16
3. ENGLAND, EAST	56	30	49·0	37·8	43·2	+ 1·4	26	− 2	12	− 15	4	0	0·60	+0·23	20	− 11	23	−13
4. MIDLAND COUNTIES	56	28	49·4	36·7	42·9	+ 1·1	29	+ 1	15	− 12	5	+ 2	0·71	+0·34	19	− 8	22	−10
5. ENGLAND, S.E.	54	25	49·0	38·8	43·7	+ 0·8	25	− 3	9	− 11	6	+ 3	0·72	+0·32	20	− 10	24	−12
Western																		
6. SCOTLAND, WEST	57	25	49·1	35·7	42·2	+ 0·7	28	+ 8	18	− 4	3	− 2	0·71	−0·09	20	− 7	24	− 9
7. ENGLAND, N.W.	59	28	49·5	37·0	43·1	+ 1·2	29	+ 8	14	− 6	4	+ 1	0·79	+0·26	26	− 1	31	− 1
8. ENGLAND, S.W.	56	27	49·3	39·2	44·1	+ 0·8	26	− 1	8	− 8	6	+ 3	1·53	+0·95	23	− 8	28	− 9
9. IRELAND, NORTH	56	28	50·1	37·7	43·7	+ 1·3	30	+ 7	12	− 7	4	0	0·71	+0·09	25	0	30	0
10. IRELAND, SOUTH	59	27	52·0	39·5	45·6	+ 1·7	36	+ 6	7	− 8	6	+ 2	1·20	+0·54	23	− 7	27	− 8
11. ENGLISH CHANNEL	55	33	51·6	42·9	47·1	+ 1·4	36	+ 4	0	− 6	6	+ 2	1·12	+0·65	25	− 12	30	−14

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 3 Weeks, March 7th to 27th, 1909.

0. SCOTLAND, NORTH	53	20	*	*	*	*	11	− 19	107	+ 13	15	− 1	1·32	−1·80	47	− 14	20	− 6
Eastern																		
1. SCOTLAND, EAST	50	7	*	*	*	*	7	− 38	132	+ 20	15	+ 3	2·71	+1·12	39	− 33	16	−14
2. ENGLAND, N.E.	58	21	*	*	*	*	21	− 34	106	+ 23	16	+ 5	1·86	+0·65	51	− 31	21	−13
3. ENGLAND, EAST	56	21	*	*	*	*	30	− 39	86	− 3	15	+ 5	1·42	+0·38	52	− 30	21	−12
4. MIDLAND COUNTIES	57	17	*	*	*	*	36	− 34	103	+ 14	14	+ 5	1·33	+0·17	54	− 19	22	− 8
5. ENGLAND, S.E.	55	13	*	*	*	*	39	− 41	75	+ 7	16	+ 7	1·67	+0·42	59	− 21	24	− 9
Western																		
6. SCOTLAND, WEST	57	19	*	*	*	*	38	− 9	84	+ 8	10	− 3	1·70	−0·71	61	− 11	25	− 5
7. ENGLAND, N.W.	59	19	*	*	*	*	37	− 15	85	+ 17	12	+ 1	1·31	−0·29	73	+ 2	30	+ 1
8. ENGLAND, SW	56	12	*	*	*	*	36	− 35	75	+ 19	18	+ 7	2·98	+1·16	73	− 9	30	− 4
9. IRELAND, NORTH	56	22	*	*	*	*	45	− 16	68	+ 4	14	+ 1	1·69	−0·10	62	− 7	26	− 3
10. IRELAND, SOUTH	59	23	*	*	*	*	62	− 18	64	+ 14	17	+ 5	2·48	+0·50	79	0	33	0
11. ENGLISH CHANNEL	55	30	*	*	*	*	68	− 18	26	+ 4	20	+ 8	2·87	+1·35	85	− 14	35	− 6

THE YEAR.—Aggregates, &c., for the Period of 12 Weeks, January 3rd to March 27th, 1909.

0. SCOTLAND, NORTH	56	13	*	*	*	*	55	− 35	416	− 8	60	− 2	10·24	−3·84	144	− 5	19	− 1
Eastern																		
1. SCOTLAND, EAST	58	1	*	*	*	*	46	− 67	526	+ 46	46	− 1	7·56	+0·98	162	− 34	21	− 5
2. ENGLAND, N.E.	58	14	*	*	*	*	56	− 79	501	+117	42	− 2	4·73	+0·13	197	− 11	25	− 1
3. ENGLAND, EAST	58	12	*	*	*	*	65	− 94	491	+ 93	45	+ 1	3·67	−0·74	223	+ 2	28	0
4. MIDLAND COUNTIES	57	8	*	*	*	*	79	− 95	548	+123	39	− 3	4·26	−1·08	198	+ 6	25	+ 1
5. ENGLAND, S.E.	56	0	*	*	*	*	94	− 95	444	+117	41	0	4·62	−1·08	247	+ 33	30	+ 4
Western																		
6. SCOTLAND, WEST	57	11	*	*	*	*	92	− 44	359	+ 21	45	− 8	9·79	−1·47	175	− 3	22	0
7. ENGLAND, N.W.	59	10	*	*	*	*	95	− 51	409	+ 90	43	− 4	6·01	−1·26	234	+ 50	30	+ 6
8. ENGLAND, S.W.	56	7	*	*	*	*	120	−102	369	+114	46	− 1	6·89	−1·93	262	+ 45	32	+ 6
9 IRELAND, NORTH	56	14	*	*	*	*	166	− 20	245	− 36	57	+ 2	7·94	−0·88	171	− 16	22	− 2
10. IRELAND, SOUTH	59	15	*	*	*	*	230	− 36	241	+ 26	54	+ 4	7·33	−2·20	216	+ 1	27	0
11. ENGLISH CHANNEL	55	25	*	*	*	*	243	− 62	151	+ 50	50	− 3	7·13	−0·30	300	+ 33	36	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*45*	*23rd*	*34*	*27th*	*42·9*	*38·2*	*40·5*	—	*3*	*14*	7	*1·16*	—	*7·5*	—	*9*	—	*Balta Sound.*
	a Sumburgh Head ..	44	22nd, 23rd	34	27th	42·9	37·1	39 9	+ 1·2	3	17	7	0·68	+ 0·01	13·4	- 11·5	16	- 14	Deerness.
	a Stornoway	51	21st	30	27th	46·9	37·3	42·0	+ 2·0	14	13	2	0·09	- 0·80	19·5	- 5·5	23	- 7	Stornoway.
	a Castlebay, Barra Isd.	*49*	*24th*	*36*	*27th*	*47·0*	*40·0*	*43·4*	+ *0·5*	*18*	*6*	*4*	*0·84*	—	*28·2*	—	*34*	—	*Castlebay.*
	a Wick	45	23rd, 26th	30	27th	43·3	37·0	40·1	+ 0·2	4	18	6	0·21	- 0·29	*	*	*	*	
b, Mainland.	*p* Strathpeffer	48	23rd	30	27th	44·2	35·3	39·6	+ 0·3	6	24	4	0·32	- 0·26	11·0	- 10·9	13	- 13	Strathpeffer.
	p Glencarron	52	22nd	25	27th	47·6	33·1	40·1	+ 1·3	16	33	3	0·16	- 1·54	*	*	*	*	
	p Fort Augustus S	53	22nd	26	27th	47·5	35·5	41·3	+ 1·5	15	25	2	0·15	- 0·63	13·8	- 4·9	16	- 6	Fort Augustus.
	p Fort William S	52	21st	26	27th	48·6	34·4	41·3	+ 0·3	18	30	3	0·08	- 1·36	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	47	23rd	31	22nd	44·6	34·1	39·2	- 1·6	7	28	3	0·39	- 0·11	*19·4*	—	*23*	—	*Gordon Castle.*
	a Nairn	50	24th	29	21st	45·0	33·7	39·2	- 0·7	8	30	3	0·25	- 0·15	14·7	—	18	—	Nairn.
	a Aberdeen	46	27th	35	27th	43·4	33·0	40·6	+ 0·2	4	14	4	0·37	- 0·15	6·3	- 21·7	8	- 26	Aberdeen.
	a Balmoral .. S	48	22nd	25	27th	41·9	30·3	35·9	- 0·3	0	43	3	0·50	- 0·12	7·1	—	8	—	Crathes S.
	p Crieff .. .. S	49	22nd, 26th	32	27th	45·4	36·6	40·9	+ 0·4	10	21	2	0·76	+ 0·11	12·9	—	15	—	Balruddery
	a Leith	48	22nd	34	27th	45·3	37·0	41·0	- 0·9	9	19	4	1·07	+ 0·75	11·2	- 10·6	13	- 13	Edinburgh.
	a West Linton .. S	49	22nd	25	21st	44·7	30·5	37·4	- 1·1	8	41	4	1·27	—	*16·9*	—	*20*	—	*West Linton.*
	p Marchmont .. S	48	27th	32	21st	45·0	34·1	39·4	+ 0·1	8	29	5	1·51	+ 0·96	12·4	- 12·9	15	- 15	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	47	24th, 27th	34	21st, 27th	44·9	36·5	40·6	+ 0·1	8	21	3	1·24	+ 0·69	15·1	—	18	—	Cockle Park.
	a Shields	50	24th	33	27th	45·3	35·3	40·2	- 0·7	9	25	3	0·84	+ 0·43	*5·6*	- *15·4*	*7*	- *13*	*Newcastle.*
	p Durham	50	22nd, 27th	32	27th	47·9	35·0	41·3	+ 1·1	17	28	5	0·79	+ 0·41	9·8	- 16·4	12	- 20	Durham.
	p Rounton .. M	50	24th, 27th	30	27th	48·3	35·8	41·9	+ 1·8	18	25	4	0·58	+ 0·13	*	*	*	*	
	p Scarborough .. M	54	21st	34	27th	49·7	36·7	43·0	+ 1·5	29	15	5	1·00	+ 0·59	17·3	—	21	—	Scarborough.
	p York	53	24th	32	27th	49·6	36·5	42·9	+ 1·1	29	15	5	0·55	+ 0·18	10·5	- 13·3	13	- 16	York.
b, South.	*a* Spurn Head	49	21st	31	22nd	45·3	36·6	40·8	- 0·6	9	20	6	0·57	+ 0·28	*	*	*	*	
	a Lincoln	56	20th	29	22nd	?50·5	36·8	43·5	+ 1·7	32	15	5	0·46	+ 0·11	25·0	—	30	—	Skegness.
	a Fulbeck	55	21st	31	22nd	49·4	36·4	42·7	+ 0·9	28	16	6	0·53	+ 0·19	23·7	—	28	—	Rauceby.
															24·0	—	*29*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	54	21st	34	27th	47·7	36·4	41·9	+ 1·0	16	23	4	0·61	—	21·1	—	25	—	Cromer.
	p Hillington .. M	56	21st	30	27th	50·2	35·8	42·8	+ 1·3	32	17	4	0·77	+ 0·37	16·2	- 10·8	19	- 13	Hillington.
	a Yarmouth	53	21st	33	27th	46·9	37·0	41·8	+ 1·1	14	20	4	0·67	+ 0·33	24·2	—	29	—	Yarmouth.
	a Norwich	55	21st	33	27th	49·9	38·9	44·2	+ 2·9	28	9	3	0·80	—	*	*	*	*	
	p Geldeston	54	21st	32	27th	49·5	37·3	43·2	+ 1·7	28	13	3	0·60	+ 0·26	21·3	- 8·4	25	- 10	Geldeston.
	p Cambridge	54	25th	31	27th	50·7	38·8	44·6	+ 2·6	32	9	4	0·49	+ 0·19	19·0	- 9·8	23	- 12	Cambridge.
b, South.	*a Felixstowe*	*51*	*25th*	*32*	*27th*	*47·3*	*37·6*	*42·3*	+ *0·5*	*21*	*12*	*5*	*0·43*	—	*20·9*	—	*25*	—	*Felixstowe.*
	a Clacton-on-Sea ..	52	27th	33	27th	47·4	38·1	42·6	+ 1·3	21	11	5	0·32	—	19·7	—	24	—	Clacton.
	a Rothamsted ..	51	27th	31	27th	49·1	38·2	43·5	+ 2·4	26	11	5	0·65	+ 0·24	18·3	- 9·1	22	- 11	Rothamsted.
	a Shoeburyness ..	*52*	*25th*	*33*	*27th*	*48·3*	*38·7*	*43·4*	+ *0·5*	*24*	*9*	*6*	*0·30*	+ *0·05*	*21·3*	—	*25*	—	*Southend.*
	p Tottenham	53	25th	32	27th	49·5	40·0	44·6	+ 2·4	27	6	5	0·52	—	17·1	—	20	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	51	27th	31	27th	48·1	35·3	41·5	+ 1·4	17	26	4	0·70	+ 0·23	16·4	—	20	—	Harrogate.
	a Bawtry	54	21st, 22nd	29	22nd	50·1	35·3	42·5	+ 0·7	32	19	4	0·49	+ 0·16	17·5	- 6·5	21	- 8	Worksop.
	p Buxton .. M	*50*	*21st*	*26*	*22nd*	*47·0*	*33·6*	*40·1*	+ *1·7*	*14*	*32*	*4*	*1·75*	+ *0·85*	*24·5*	—	*29*	—	*Buxton.*
	a Nottingham ..	56	21st	31	22nd	50·0	36·9	43·3	+ 1·7	31	14	4	0·41	+ 0·06	25·9	—	31	—	Nottingham.
	p Birmingham, Edgbn	52	21st	33	27th	48·5	37·3	42·7	+ 1·5	25	13	5	0·49	+ 0·09	11·7	—	14	—	Birmingham.
	a Raunds .. M	56	21st	30	27th	50·7	37·3	43·8	+ 2·7	32	13	5	0·54	—	*	*	*	*	
	a Oxford	52	24, 25, 27th	31	27th	49·7	38·7	44·0	+ 1·7	28	9	5	0·79	+ 0·48	18·6	- 8·4	22	- 10	Oxford.
b, West.	*a* Cheadle .. M	52	21st	31	22nd	47·2	35·9	41·4	+ 1·2	15	24	5	0·76	+ 0·26	20·7	—	25	—	Sheffield.
	p Shrewsbury	54	21st	34	24th, 27th	50·2	37·1	43·5	+ 0·9	31	14	5	0·48	—	*	*	*	*	
	a Hereford .. M	53	25th	30	27th	50·2	36·7	43·3	+ 0·9	31	15	5	0·59	+ 0·20	*	*	*	*	
	a Cirencester	51	24th	28	27th	48·3	36·2	42·1	+ 1·3	25	16	6	1·36	+ 0·94	18·8	- 8·7	22	- 10	Cirencester.
	a Bath	53	24th	28	27th	50·1	37·4	43·6	+ 1·1	31	13	6	1·17	+ 0·70	20·5	—	24	—	Bath.
															26·2	—	*31*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	51	22, 23, 25, 27	32	27th	50·0	43·3	45·0	+ 2·5	28	5	5	0·61	+ 0·25	18·6	- 6·6	22	- 8	Kew.
	a Marlborough ..	50	24th	25	27th	48·1	36·5	42·1	+ 1·7	24	15	6	1·18	+ 0·66	11·8	- 13·1	14	- 16	Marlborough.
	a Margate	53	25th	37	24th, 27th	48·9	39·9	44·3	+ 2·3	25	6	4	0·13	- 0·20	22·6	- 6·0	27	- 7	Margate.
	a Wisley, Surrey ..	53	25th	32	27th	50·1	39·4	44·6	+ 1·7	29	7	6	0·40	—	19·5	—	23	—	Wisley.
	a Swarraton .. M	51	25th, 27th	26	27th	49·0	37·1	42·9	+ 1·4	27	14	6	0·79	+ 0·29	23·8	—	28	—	Worthing.
	a Tunbridge Wells M	54	25th	29	27th	48·4	37·4	42·7	+ 0·9	24	13	5	0·64	+ 0·16	16·6	- 12·1	20	- 14	Tunbridge Wells.
	a Dungeness	49	25th	29	27th	46·9	37·6	42·1	+ 0·2	19	12	6	0·81	+ 0·45	20·5	—	24	—	Littlestone.
	p Hastings	51	25th	34	27th	47·0	39·8	43·3	+ 0·6	18	6	5	0·55	+ 0·09	*21·1*	- *11·0*	*25*	- *13*	*Hastings.*
	p Southampton ..	54	25th	31	27th	51·4	39·1	45·1	+ 0·7	34	8	6	0·89	+ 0·42	21·4	- 8·4	26	- 10	Southampton.
	a Ventnor	52	25th, 26th	37	27th	50·4	40·5	45·3	+ 1·1	29	4	6	1·24	+ 0·82	22·2	- 11·6	26	- 14	Ventnor.
															22·7	- 9·1	27	- 11	Eastbourne.
LONDON	*a Westminster* ..	*53*	*25th*	*31*	*27th*	*50·1*	*39·7*	*44·8*	+ *2·0*	*29*	*6*	*6*	*0·41*	+ *0·03*	*16·2*	- *0·8*	*19*	- *1*	*Westminster.*
	a Greenwich	*54*	*25th*	*32*	*27th*	*51·3*	*39·7*	*45·3*	+ *1·9*	*33*	*6*	*5*	*0·71*	+ *0·34*	*20·7*	- *3·1*	*25*	- *4*	*Greenwich.*
6. a, SCOTLAND. W. ..	*p* Laudale	54	23rd	28	27th	49·9	35·5	42·5	+ 0·6	31	18	2	0·29	- 1·15	*	*	*	*	
	a Poltalloch .. S	53	21st	26	27th	49·6	35·7	42·4	+ 1·5	29	18	2	0·24	- 0·53	*	*	*	*	
	p Glasgow	53	22nd	32	27th	46·1	37·0	41·4	+ 0·7	11	19	2	0·83	+ 0·30	10·7	- 9·5	13	- 11	Glasgow.
	p Rothesay .. S	51	22nd	30	27th	48·6	37·6	42·9	+ 1·4	25	12	3	0 53	- 0·20	*	*	*	*	
	a Kilmarnock	52	23rd	28	27th	49·0	34·9	41·7	+ 0·7	20	28	3	0·50	—	*13·7*	—	*16*	—	*Kilmarnock.*
	a Colmonell	54	22nd	29	27th	49·9	35·6	42·5	+ 0·6	30	18	2	0·72	- 0·01	*	*	*	*	
	p Dumfries .. S	57	22nd	33	27th	51·1	36·6	43·6	+ 2·5	34	15	2	1·00	+ 0·37	*	*	*	*	
b, ISLE OF MAN ..	*p* Cally, Gatehouse S	57	22nd	25	27th	49·9	32·1	40·7	- 0·2	22	38	5	1·12	+ 0·37	*	*	*	*	
	p Douglas	50	24th	33	22nd	47·7	36·7	42·0	+ 0·2	16	15	3	1·14	+ 0·50	28·7	- 2·7	34	- 3	Douglas.
															30·0	—	36	—	Hoylake.
7. a, ENGLAND, N.W. ..	*p* Aspatria	52	22nd, 23rd	32	27th	49·1	35·7	42·2	+ 1·8	28	18	4	0·91	+ 0·25	26·2	—	31	—	Aspatria.
	p Newton Rigg ..	55	22nd	28	27th	49·3	33·7	41·3	+ 1·8	20	33	4	0·75	+ 0·20	22·5	- 3·5	27	- 4	Newton Rigg.
	p Stonyhurst	49	21, 24, 27th	30	27th	47·9	36·4	42·0	+ 1·4	17	16	4	0·73	- 0·04	17·9	- 7·5	21	- 9	Stonyhurst.
	p Blackpool .. M	53	22nd	31	22nd	48·7	36·5	42·4	+ 0·9	26	15	4	0·65	+ 0·15	31·3	+ 5·5	37	+ 7	Blackpool.
	p M'nch'ster, Prestwich	53	21st, 22nd	31	27th	49·7	36·5	42·9	+ 1·8	29	15	3	1·17	+ 0·60	*12·3*	- *7·7*	*15*	- *9*	*Prestwich.*
	a Liverpool (Bidston)	53	22nd	33	22nd	49·0	38·0	43·3	+ 0·2	26	11	4	0·59	+ 0·17	*34·8*	—	*41*	—	*Liverpool.*
	a Hawarden Bridge ..	55	21st	30	22nd	51·0	37·8	44·2	+ 1·3	33	12	4	0·63	+ 0·29	*30·5*	+ *3·9*	*36*	+ *5*	*Southport.*
															27·9	—	*33*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	51	24th	34	22nd	48·8	39·1	43·8	+ 0·8	25	8	4	0·75	+ 0·27	30·0	+ 3·5	36	+ 4	Llandudno.
	a Holyhead	51	22nd	35	22nd, 23rd	48·3	38·9	43·5	+ 0·6	24	9	5	0·51	- 0·06	24·0	—	29	—	Aberdovey.
	p Bettws-y-Coed ..	59	27th	31	22nd	53·6	37·0	45·1	+ 2·2	43	14	5	1·24	—	26·1	—	31	—	Bettws-y-Coed.
															18·8	—	22	—	Aberystwyth.
8. a, SOUTH WALES ..	*a* Llangammarch Wells	50	21st	27	27th	48·7	35·8	42·1	+ 1·5	27	17	7	1·43	—	15·3	—	18	—	Llangammarch Wells.
	a Pembroke	49	23rd, 24th	40	21st, 22nd	47·9	41·6	44·7	+ 1·8	21	1	6	1·29	+ 0·81	26·2	- 4·8	31	- 6	Pembroke.
	a Cardiff	51	27th	32	21st	48·5	37·3	42·7	- 0·6	25	13	6	2·03	+ 1·36	*21·7*	—	*26*	—	*Cardiff.*
															27·2	- *5·7*	*32*	- *7*	*Tenby.*
b, ENGLAND, S.W. ..	*a* Clifton	53	24th	31	21st	49·7	38·9	44·1	+ 1·4	28	9	5	1·55	+ 1·02	*13·7*	—	*16*	—	*Clifton.*
	a Shaftesbury .. M	48	{21, 23, 24, 25, 26, 27}	31	27th	47·4	37·1	42·1	+ 1·0	21	14	6	0·87	+ 0·36	*	*	*	*	
	a Arlington	51	23rd	29	27th	48·0	38·4	43·1	+ 1·7	23	10	6	2·04	+ 1·21	24·5	- 6·9	29	- 8	Newquay.
	a Cullompton .. M	56	23rd	28	27th	52·1	37·3	44·5	+ 1·5	37	13	6	1·05	+ 0·50	22·1	- 6·4	26	- 8	Cullompton.
	a Portland Bill ..	49	23, 26, 27th	37	27th	48·1	42·6	45·3	+ 1·9	23	0	7	0·95	—	*21·6*	—	*26*	—	*Weymouth.*
	p Plymouth	55	21st, 23rd	32	27th	51·8	40·8	46·1	+ 2·0	34	3	6	2·02	+ 1·43	21·8	- 9·2	26	- 11	Plymouth.
	p Falmouth	54	21st	37	27th	51·2	42·5	46·7	+ 2·3	33	0	6	2·10	+ 1·41	33·0	+ 0·8	39	+ 1	Falmouth.
															28·4	- *4·6*	*34*	- *6*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	56	23rd	36	22nd	49·4	39·3	44·2	+ 2·3	27	8	3	0·43	- 0·07	*	*	*	*	
	a Blacksod Point ..	54	22nd, 23rd	36	22nd	51·1	40·3	45·5	+ 1·7	32	5	5	0·92	+ 0·09	*	*	*	*	
	p Markree Castle ..	56	23rd	28	22nd	51·4	35·7	43·3	+ 1·5	36	18	4	0·70	0·00	22·1	- 2·9	26	- 4	Markree Castle.
b, East.	*p* Armagh	53	21, 22, 23rd	28	22nd	51·3	36·0	43·4	+ 1·5	35	17	4	0·90	+ 0·40	28·5	+ 3·8	34	+ 5	Armagh.
	a Donaghadee	52	24th	33	22nd, 23rd	47·3	37·4	42·2	- 0·3	21	13	4	0·60	+ 0·12	*	*	*	*	
10. IRELAND, S. — a, East.	*p* Dublin, City ..	55	24th	33	22nd	50·8	39·2	44·8	+ 0·9	31	8	3	0·69	+ 0·26	26·8	- 2·4	32	- 3	Phœnix Park.
	a Kilkenny	56	23rd, 24th	27	21st	52·1	37·1	44·4	+ 1·7	37	14	5	0·90	+ 0·42	*	*	*	*	
	a Waterford	56	23rd, 24th	31	21st	52·6	39·9	46·1	+ 2·7	38	6	6	1·35	+ 0·76	*	*	*	*	
	a Birr Castle	56	23rd	30	21st	52·7	36·6	44·4	+ 2·6	39	15	6	0·65	+ 0·13	22·5	- 3·8	27	- 5	Birr Castle.
	a Foynes	54	24th	30	21st	51·9	39·4	45·5	+ 1·6	35	7	7	1·08	+ 0·47	*	*	*	*	
b, West.	*a* Cahir .. .. M	56	23rd, 24th	29	21st	51·5	37·9	44·5	+ 1·5	35	11	7	1·51	—	*	*	*	*	
	a Killarney	59	23rd	37	27th	53·6	41·9	47·6	+ 3·1	40	0	5	1·25	+ 0·25	*	*	*	*	
	a Valencia	55	22nd, 24th	38	23rd, 27th	52·9	41·6	47·1	+ 2·0	37	1	6	1·72	+ 0·73	19·6	- 10·0	23	- 12	Valencia.
	a Roche's Point ..	54	23rd	26	22nd	50·1	41·7	45·8	+ 1·3	28	1	6	1·61	+ 0·97	22·1	—	26	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	55	24th	43	27th	52·9	44·6	48·6	+ 2·7	46	0	6	1·23	+ 0·72	30·5	- 2·5	36	- 3	Scilly.
	a Jersey, St. Aubins ..	52	21, 23, 26th	33	27th	50·9	41·3	46·0	+ 0·9	31	2	6	1·14	+ 0·63	20·5	- 14·2	24	- 17	St. Heliers.
	a Guernsey	52	21, 22, 23, 25	34	27th	51·1	42·7	46·8	+ 1·6	34	0	6	0·99	+ 0·45	23·6	- 10·9	28	- 13	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 22·3 hrs.* (– *9·0 hrs.*), *27 %* (– *11 %*); *Bournemouth, 21·9 hrs., 26 %*; *Bognor, 22·2 hrs., 26 %*.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	— — ..				
	— — ..				
	— — ..				
1.	Aberdeen ..	—	—	—	39·0
	Crathes	2	24	38·0	37·8
	Balmoral	4	21	—	—
	West Linton ..	5	21	—	—
	Marchmont ..	4	28	38·9	—
2.	Cockle Park	6	22	39·8	39·0
	Durham	1	29	—	—
	York	—	—	40·2	39·4
	Hull	3	27	40·9	40·0
	Lincoln	—	—	39·6	37·8
	Rauceby	3	27	42·1	40·6
3.	Norwich	1	27	—	—
	Yarmouth	—	—	42·4	41·4
	Lowestoft	1	29	42·3	40·5
	Cambridge ..	1	27	43·0	41·5
	Clacton-on-Sea ..	1	28	42·2	42·3
	Southend	1	27	42·7	—
	Tottenham	1	27	—	41·3
4.	Harrogate	1	29	39·1	38·5
	Huddersfield ..	2	25	37·1	37·7
	Buxton	5	20	37·5	38·3
	Sheffield	2	25	38·9	38·5
	Nottingham ..	2	26	41·2	38·4
	Birmingham	3	21	41·0	41·5
	Oxford	1	25	—	—
	Hereford	4	21	—	—
	Cirencester	? 2	25	—	—
5.	Margate	0	33	42·3	40·7
	Greenwich	2	24	—	—
	Westminster ..	1	25	—	—
	Kew	3	21	42·7	41·5
	Canterbury	1	28	41·7	41·6
	Tunbridge Wells ..	3	21	41·5	—
	Wisley	1	27	42·6	41·4
	Worthing	1	25	43·5	42·3
	Portsmouth ..	2	25	44·0	43·7
6.	Glasgow	1	26	—	—
	Rothesay	—	—	—	41·4
	Colmonel	1	25	—	—
	Dumfries	—	—	—	—
	Douglas	?	?	—	—
7.	Aspatria	4	27	—	—
	Newton Rigg ..	5	20	40·6	39·0
	Burnley	4	22	38·9	38·4
	Southport	2	23	41·8	40·3
	Manchester City ..	2	29	40·4	39·9
	Bettws-y-Coed ..	2	30	41·3	42·0
8.	Llangammarch Wells	5	13	41·9	41·8
	Cardiff	2	26	41·7	40·8
	Clifton	1	28	—	—
	Bath	—	—	43·0	42·7
	Plymouth	1	24	45·4	—
9.	Armagh	4	25	43·0	42·6
	Markree	4	24	—	—
10.	Dublin, Trin. Coll. ..	3	20	43·5	43·3
11.	Guernsey, Brooklyn	1	27	45·1	44·0

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	42	42·3
	Kirkwall	43	40	41·8
	Wick	45	44	44·8
SCOTLAND, E.	Cromarty	42	39	40 9
	Pennan Bay	42	40	41·5
	Aberdeen, Cove Bay ..	42	40	41·2
ENGLAND, N.E.	Burnmouth, Berwick ..	41	40	40·5
	Scarborough	42	40	40·9
ENGLAND, E.	Shipwash Lightship ..	40	39	39·2
	Margate	44	39	41·0
ENGLAND, S.E.	Eastbourne‡	42	40	40·9
SCOTLAND, W.	Lamlash	44	43	43·2
	Ballantrae	45	42	43·4
ENGLAND, N.W.	Port Erin	45	43	43·8
ENGLAND, S.W.	Newquay	47	45	46·0
	Plymouth‡	49	47	47·7
	Salcombe	48	45	46·2
IRELAND, N.W.	Sheephaven	45	44	44·7
	Teelin	48	45	46·7
IRELAND, S.W.	Cleggan	49	44	47·0
	Seafield	53	44	48·5
IRELAND, E.	.. ..			

‡ Only one observation each day.

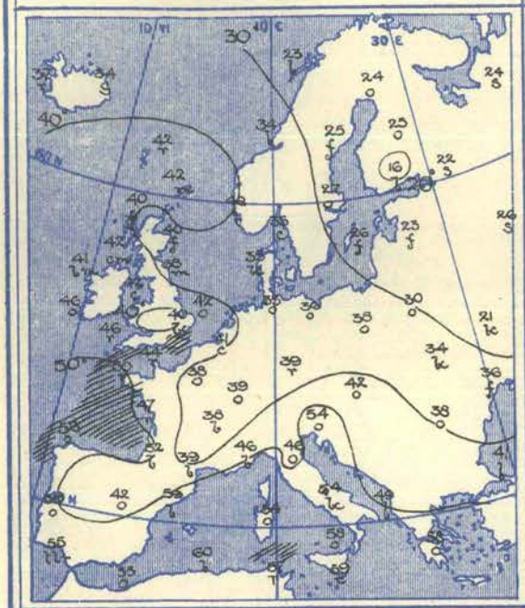
ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1909.	Station.	Wind Direction (in Degrees, 90° = E, 180° = S, 270° = W, 360° = N) and Velocity, Metres per Second. Ground Level.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres.	4,000 metres.	4,500 metres.	5,000 metres.	5,500 metres.	6,000 metres.	6,500 mtrs.	7,000 mtrs.	7,500 mtrs.	8,000 mtrs.
1	February 14th, 4.50 p.m.	Ditcham Park, Petersfield, 165 metres.	355°, 5	15°, 9	10°, 10	10°, 10	20°, 10	15°, 11	360°, 12	30°, 13	25°, 15	25°, 19							
2	February 15th, 2.21 p.m.	Ditcham Park, Petersfield, 165 metres.	345°, 5	360°, 9	350°, 16	320°, 14	320°, 10	330°, 16	335°, 18	340°, 17	350°, 12	325°, 14	325°, 25						
3	February 16th, 3.39 p.m. to 3.50 p.m.	Howard Estate, Glossop, 335 metres.		310°, 4	320°, 7	0°, 10	350°, 12												
4	February 17th, 8.17 a.m.	Ditcham Park, Petersfield, 165 metres.	290°, 3	290°, 4	290°, 4	80°, 3	55°, 2	340°, 4	315°, 8	320°, 10	320°, 11	310°, 10	310°, 8	305°, 7	295°, 8				
5	February 17th, 12.31 p.m. to 1.0 p.m.	Howard Estate, Glossop, 335 metres.	240°, 1·2	235°, 2·6	245°, 3·5	190°, 5·8	200°, 7·6	250°, 4·2	280°, 3·5	285°, 4·4									
6	February 18th, 4.43 p.m.	Ditcham Park, Petersfield, 165 metres.	115°, 4	115°, 8	110°, 11	135°, 7	125°, 6	125°, 3	135°, 1	110°, 2	350°, 2	30°, 3	330°, 1	?, 1	310°, 3	305°, 5	325°, 6	325°, 8	335°, 10
7	February 19th, 10 2 a.m.	Ditcham Park, Petersfield, 165 metres.	100°, 7	120°, 13	130°, 16	130°, 15	130°, 13	140°, 11											
8	February 19th, 4.44 p.m.	Ditcham Park, Petersfield, 165 metres.	105°, 6	130°, 13	145°, 17	140°, 17	150°, 12	145°, 11	145°, 11	145°, 9	145°, 11	145°, 9	145°, 10	145°, 7	135°, 9				
9	February 20th, 10.26 a.m.	Ditcham Park, Petersfield, 165 metres.	130°, 8	140°, 9	160°, 13	160°, 10	175°, 10	160°, 9	170°, 9	175°, 11	155°, 11	170°, 11							
10	February 20th, 4.46 p.m.	Ditcham Park, Petersfield, 165 metres.	115°, 5	145°, 6	150°, 8	155°, 9	165°, 7	160°, 8	165°, 8	160°, 9	190°, 11	195°, 10	180°, 8	190°, 9	190°, 9				
11	February 21st, 2.35 p.m.	Ditcham Park, Petersfield, 165 metres.	115°, 4	145°, 10	155°, 11	155°, 7	135°, 7	110°, 5	120°, 5	130°, 6	165°, 6	185°, 6	175°, 5	175°, 5					
12	February 22nd, 11.38 a.m.	Ditcham Park, Petersfield, 165 metres.	80°, 5	105°, 9	110°, 7	110°, 7	110°, 7	70°, 6	40°, 4										
13	February 22nd, 4.52 p.m.	Ditcham Park, Petersfield, 165 metres.	80°, 5	75°, 5	90°, 4	95°, 8	80°, 5	65°, 7	30°, 7	40°, 8	40°, 8	30°, 9	25°, 9	15°, 9					
14	February 23rd, 4.30 p.m.	Ditcham Park, Petersfield, 165 metres.	15°, 6	35°, 10	40°, 8	35°, 10	30°, 11	20°, 11	20°, 12	25°, 12									
15	February 24th, 4.45 p.m.	Ditcham Park, Petersfield, 165 metres.	70°, 5	50°, 8	35°, 7	50°, 7	25°, 5	40°, 3	35°, 7	40°, 7	55°, 9	45°, 9	55°, 10	45°, 10					
16	March 5th, 5.13 p.m.	Ditcham Park, Petersfield, 165 metres.	160°, 4	180°, 9	200°, 7	210°, 8	215°, 4	250°, 5	255°, 8	265°, 9	270°, 11	275°, 15							
17	March 5th, 10.45 a.m.	Pyrton Hill, Oxon, 150 metres.	—	255°, 1	255°, 1	270°, 1	330°, 2	325°, 5	326°, 6	—	320°, 7	—	330°, 8	—	325°, 11				
18	March 16th, 10.50 a.m.	Pyrton Hill, Oxon, 150 metres.	300°, 1	310°, 4	325°, 6	320°, 4	135°, 3												

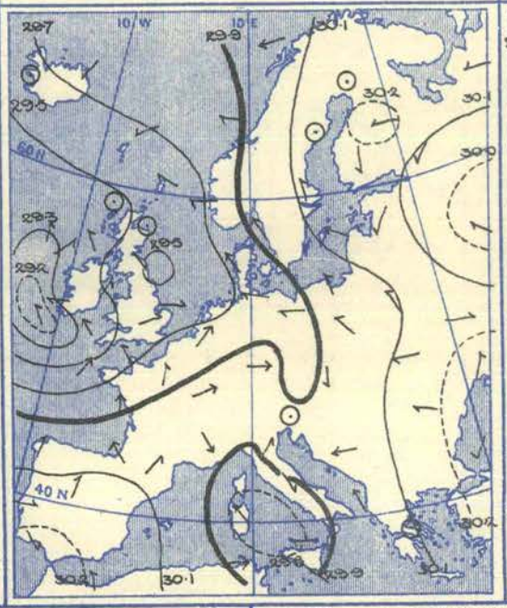
NOTES.—Nos. **1, 2, 3, 4, 7, 10, 11, 12, 14, 15, 16, 17.**—One theodolite.
Nos. **5, 6, 8, 9, 13.**—Two theodolites.
No. **3.**—Vertical Velocity, 2·5 m.p.s. assumed. At 1,300 metres wind direction changed from 320° to 5°, increasing in velocity from 7·1 to 9 m.p.s.
No. **5.**—Sudden change of direction from 245° to 200° at 1,200 metres. Afterwards a gradual veering. Two theodolites to 1,300 metres.
No. **6.**—Pilot Balloon. Two theodolites to 5,500 metres.
No. **7.**—Fell 39 kilometres W 39° N.
No. **8.**—Pilot Balloon. Two theodolites to 5,200 metres.
No. **9.**—Fell 55·5 kilometres N 3° W.
No. **10.**—Fell 37 kilometres N 7° W.
No. **13.**—Fell 35 kilometres W 39° S.
No. **15.**—Fell 36 kilometres S 45° W.
No. **17.**—Pilot Balloon. Kept in view for 43 minutes. Ascensional velocity of 1·66 m.p.s. assumed. 325°, 13 at 7 kilometres; 325°, 18 at 8 kilometres; 320°, 20 at 8·5 kilometres.
No. **18.**—Small Pilot Balloon and one theodolite. 300°, 2 at 100 metres above ground.

Sunday, 21st March, 1909.

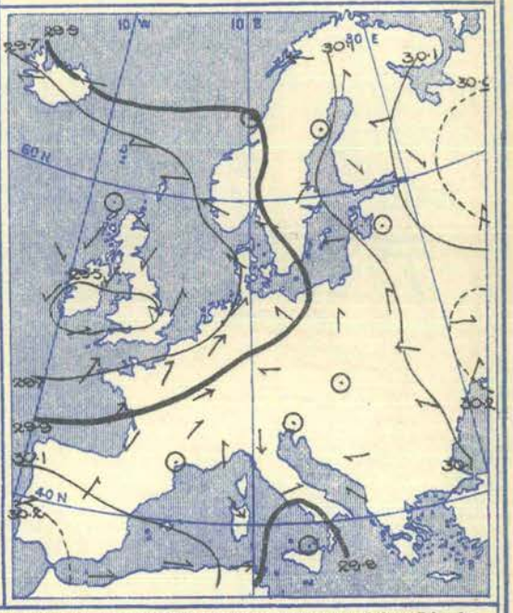
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine in various regions, but mostly very cloudy or quite overcast, with rain in the extreme south-west of these Islands, the west and north of France, and at some stations in the far south of our area, and snow over a considerable part of Russia. A little rain later in different parts of these Islands and over the central countries, and rather large quantities in some French localities.

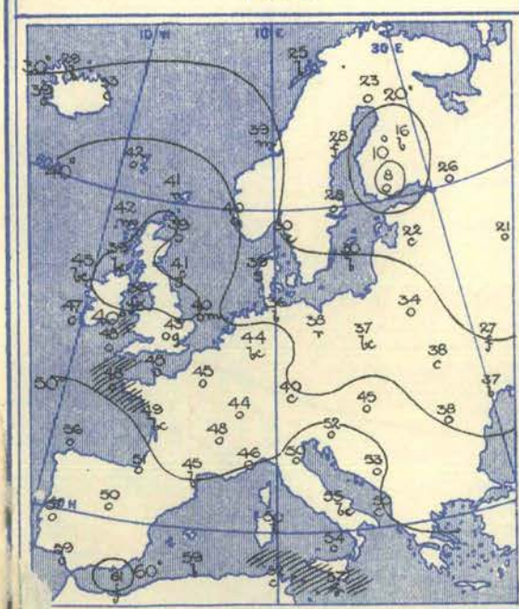
Temperature changed rather irregularly. Morning readings about 40° or below in several parts of this country, France, and central Europe, and below 32° in the east and north-east. Above 50° at most stations in the south of our area, and about 60° in a few places. Maxima during day about 66° in some Mediterranean regions, but below 50° over the greater portion of central Europe, and below 32° in the north-east. Thermometer rising to 56° at Nottingham, and to 55° in some other parts of England.

Wind in morning South-Easterly or Southerly over France and the south-west of these Islands, and moderate to fresh in force. A complete cyclonic circulation of light to strong winds prevailing over the Mediterranean and Adriatic, and a light cyclonic movement in Russia. Veering to the Westward and increasing in strength later over the Bay of Biscay and our south-west coasts, and increasing to a gale from the Eastward on the south coast of Norway.

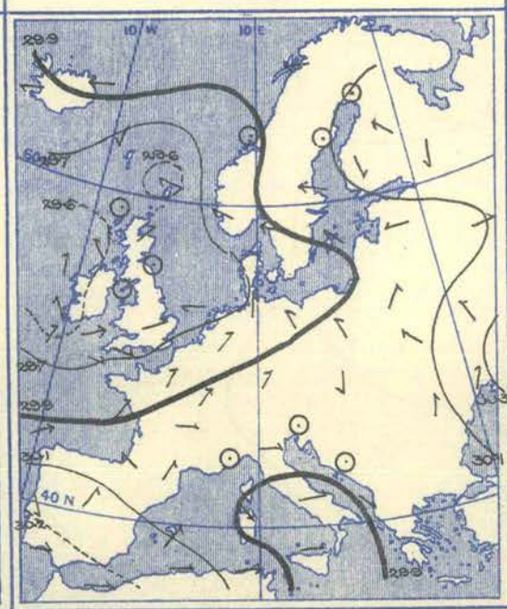
Barometer in morning ranging from above 30·2 ins. both over the south-east and south-west of our area to below 30·0 ins. in a depression over Russia, to less than 29·7 ins. in another system over the Mediterranean, and to below 29·3 ins. in a third system having its centre off the south-west of Ireland. Relatively low in a shallow disturbance over the North Sea. South-western depression extending across southern England by evening, and barometer rising again in the south-west of these Islands and the Bay of Biscay. Little change occurring in the general distribution of pressure.

Monday, 22nd March, 1909.

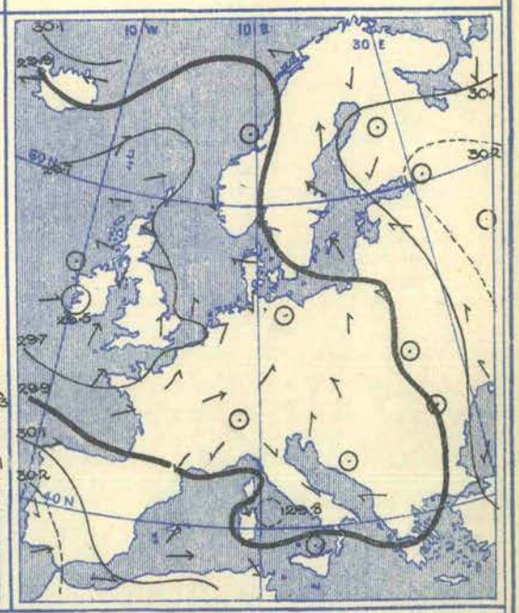
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning foggy or misty on many coasts of Great Britain, Holland, Denmark, and Germany, and very cloudy or quite overcast over the major portion of our area. Rain falling at Bilbao and Berlin, and snow at Fanö. Fair or fine and bright at many stations over the Mediterranean region. Some rain falling later in several parts of this country and in various Continental localities, but amounts not large. Fog or mist continuing on some parts of our coast.

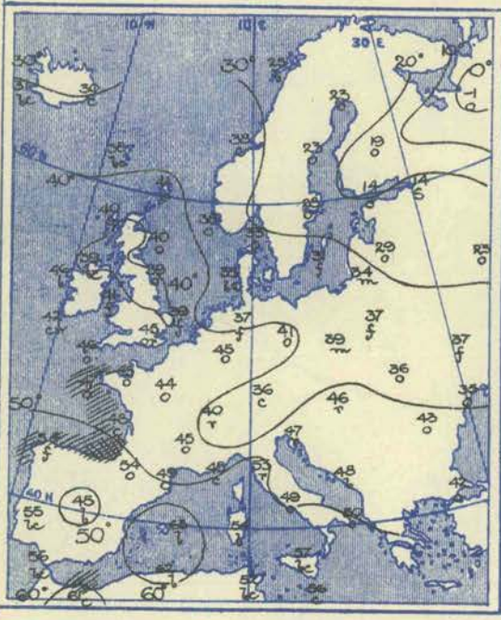
Temperature changed irregularly. Readings in morning ranging from about 60° at a few places in the far south to about 40° over central Europe, and the east and north of this country, and to below 32° in Russia and most of Scandinavia. Maxima during day about 50° in many parts of England and Ireland, and as high as 57° at Southport. Thermometer rising to above 60° at many places in the south of our area, and touching 72° at Oran and Bilbao. Frost continuing all day in Russia and Sweden.

Wind in morning light and variable over these Islands and the North Sea, light or moderate from the South-Westward over France, Southerly or South-Easterly over Germany, and mainly Easterly over Scandinavia and Iceland. Strong to a gale on the south coast of Norway. Light to strong breezes from the West or North-West prevalent over the Mediterranean. No general change later; becoming more decidedly cyclonic over these Islands.

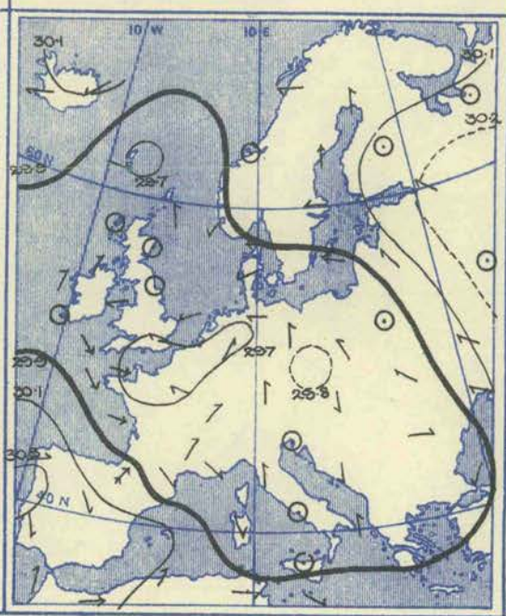
Barometer in morning above 30·2 ins. in the extreme south-west and south-east of our area, and above 30·1 ins. in the north-east. Less than 29·9 ins. in a shallow depression over the Mediterranean, and below 29·6 ins. in other disturbances to the northward and westward of these Islands. Pressure decreasing during day in the south-west of these Islands, and a depression of little depth appearing over the south-west of Ireland by evening. Gradient remaining slight over the United Kingdom, but becoming steeper over the Bay of Biscay and the Spanish Peninsula.

Tuesday, 23rd March, 1909.

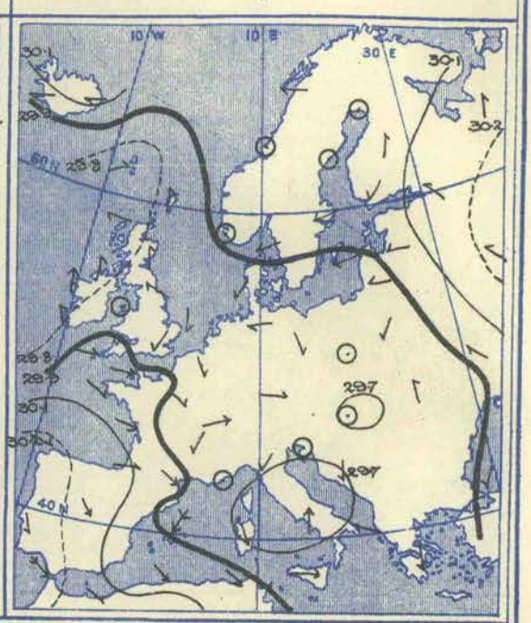
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in some parts of France, South Germany, and the south of England, and snow falling in the south of Norway and at St. Petersburg. Much mist or fog prevailing on the coasts of England, Holland, and North Germany, and also at Corunna. Sky nearly clear in various parts of southern Europe and Algeria. Rain later over the greater part of this country and over a large portion of the Continent, more than 0·5 in. in some Italian localities.

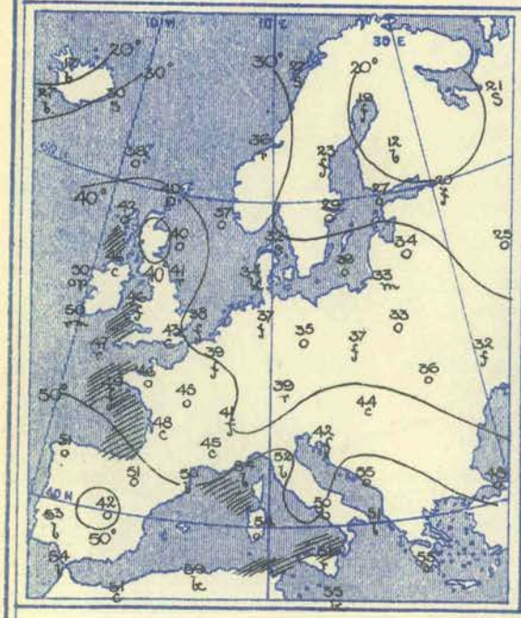
Temperature showing little change. Morning readings above 50° in the far south of our area, but only about 40° over the central countries and most of this country, and much below 32° in the north and north-east. A little below zero at Archangel. Maxima during day above 50° at a few of our own stations, and as high as 56° at Torquay. Above 60° in the south of our area generally, and above 70° in the west of Algeria. Maxima below 40° in Poland and North Germany, and below 32° at St. Petersburg and in Sweden.

Wind in morning anticyclonic in the south-west and north-east of our area, and cyclonic over the intervening regions. Little force generally, but Westerly and South-Westerly winds strong to a gale in the south-west of France. No great change later; increasing in strength from the North-Westward over the Mediterranean, and backing towards South in Ireland.

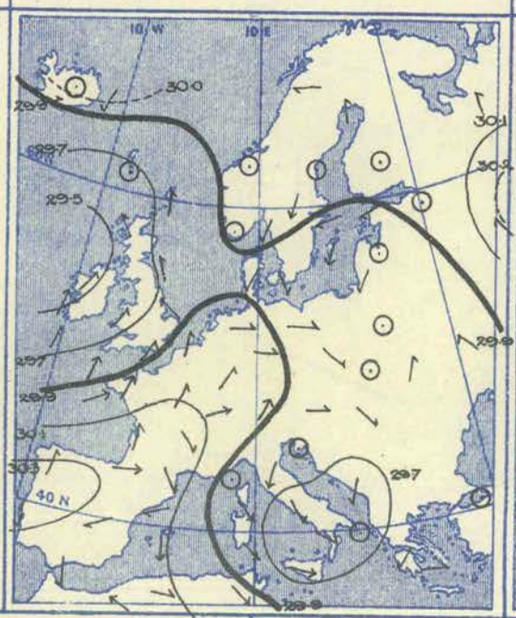
Barometer in morning above 30·3 ins. in Portugal and above 30·2 ins. in the north of Russia. Below 29·7 ins. in a minimum over the south of England and the nearer parts of the Continent, and also in a smaller system beyond the North of Scotland. Both disturbances partially dispersing during day, but a fresh system causing a fall of the barometer in the west of these Islands, and a well-defined, but not deep, depression appearing over Italy and its neighbourhood.

Wednesday, 24th March, 1909.

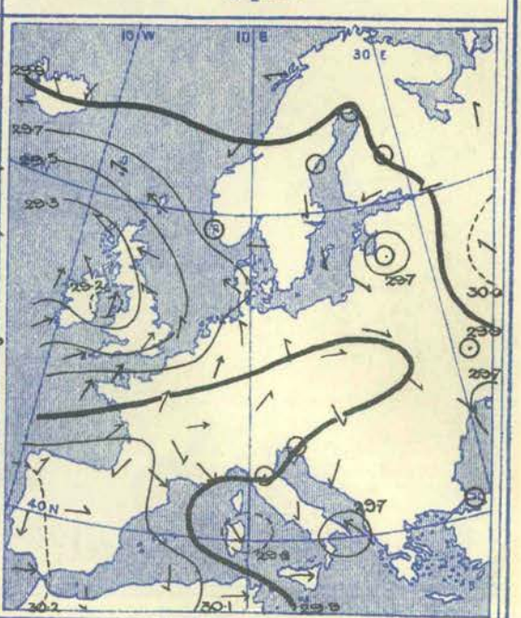
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine in Algeria, overcast or very cloudy in nearly all other regions, with rain in several parts of these Islands and at Munich, and snow at Skagen and in the far north of our area. Much fog on the coasts of England and Wales, as well as on the coast of North Germany. Rain or passing showers later in nearly all parts of these Islands and also in most regions on the Continent, but amounts not generally large.

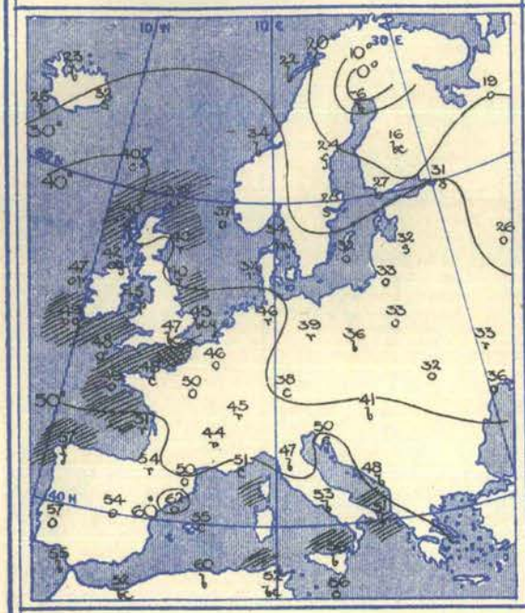
Temperature showing no decided change. Morning readings about 40° in the east and north of this country, and over a considerable portion of central Europe, but below 32° in the east and north-east of our area, and as low as 12° at Kuopio. About 50° in the south-west of Ireland, the west of France, and in many parts of southern Europe, and about 60° at a few stations on the shores of the Mediterranean. Maxima during day rather above or a little below 50° in most parts of these Islands and over a large portion of the Continent, but above 60° in the far south of Europe, and about 70° in Algeria.

Wind in morning light to moderate from between South-West and South-East over these Islands and their vicinity, rather variable and of little force over the northern countries of the Continent, and cyclonic over the south of our area. North-Westerly current strong to high over the western portion of the Mediterranean. Increasing to a fresh breeze to high wind from South-West or West over our western and southern districts by evening or at night, and increasing somewhat from South-East on our north-east coast.

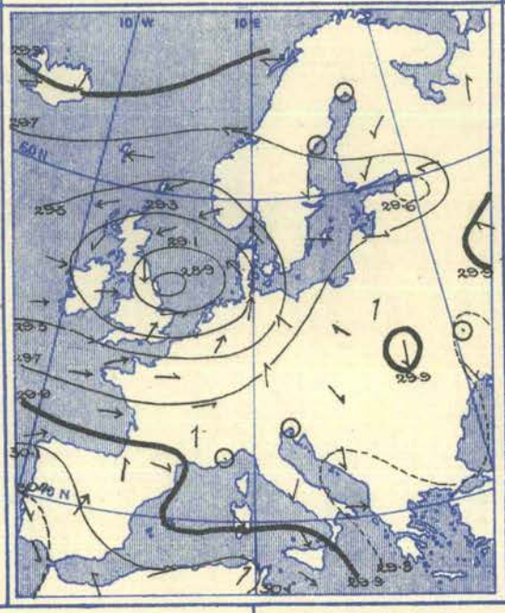
Barometer in morning above 30·2 ins. in central Russia, and above 30·3 ins. in the north-west of the Spanish Peninsula. Below 29·7 ins. in a large depression over Italy and the Adriatic, and below 29·5 ins. in another system off the north-west of this country. Latter system travelling eastwards later and increasing considerably in intensity. Gradient growing rather steep over the southern half of these Islands, and also beyond Scotland. Barometer falling over the west of Russia.

Thursday, 25th March, 1909.

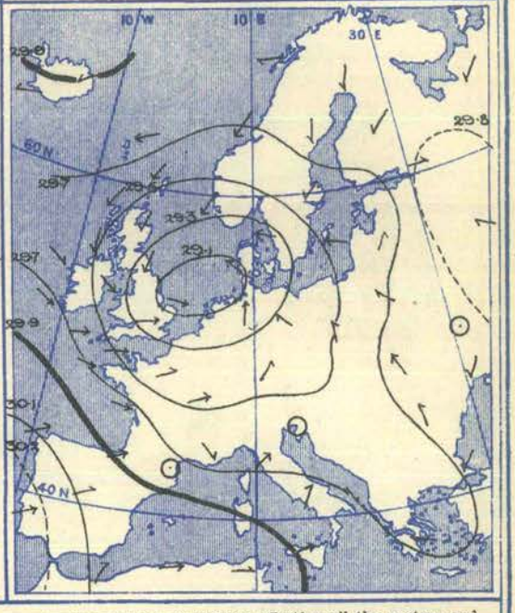
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright over a large part of the Mediterranean, in northern Scandinavia, and in a few localities elsewhere; overcast generally, with rain or showers in these Islands and all the nearer countries of the Continent, and snow in southern Scandinavia and the adjacent part of Russia. More or less precipitation later over nearly the whole of our area except the south of Spain and Algeria.

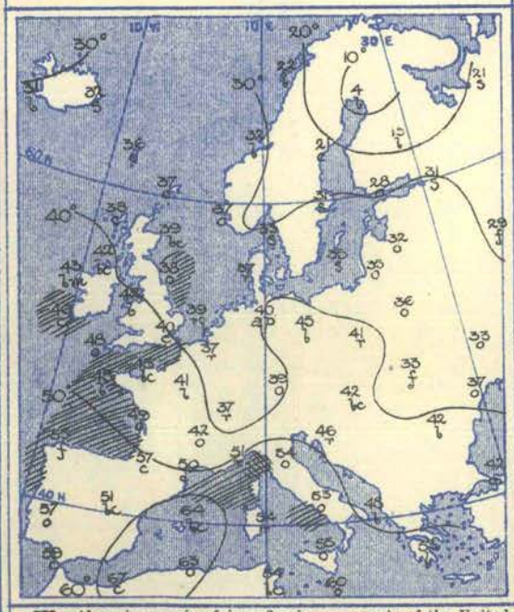
Temperature fallen over these Islands, risen in most parts of France and Germany. Morning readings between 40° and 45° at most of our own stations, above 50° on many shores of the Mediterranean and in Portugal, and as high as 60° at Algiers. Below zero at Haparanda, and below 32° in the north and north-east generally. Maxima during day about 50° in various parts of this country, France, and central Europe, and above 60° in Italy and the Spanish Peninsula, and also at Athens. Thermometer rising to above 70° on the coast of Algeria.

Wind in morning showing a very extensive cyclonic circulation affecting all the western and north-western countries. Easterly and North-Easterly currents fresh to strong over southern Scandinavia and Scotland, and that from the Westward to South-Westward fresh to strong or high over the southern half of these Islands, the north of France, and western Germany. A strong breeze from the North-Westward prevailing over some parts of the Mediterranean. Little change later as a whole; veering towards North-West or North over England and Ireland and remaining strong; increasing to a gale from North-East on the south coast of Norway.

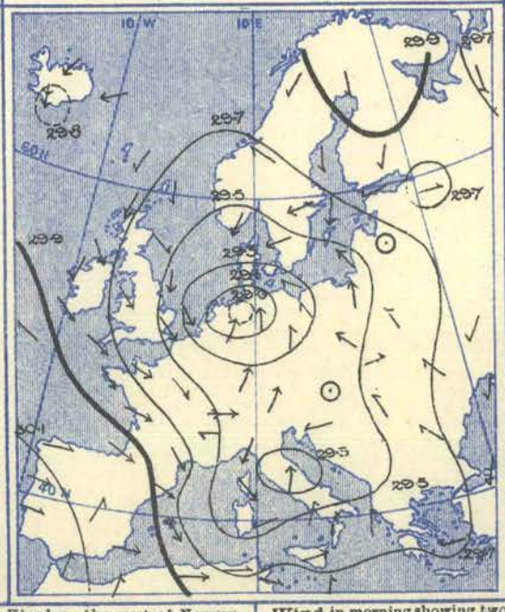
Barometer in morning ranging from above 30·2 ins. in Portugal to below 29·0 ins. in a large depression having its minimum off the coast of Yorkshire. Pressure increasing very briskly on our western coasts during day, and disturbance moving slowly eastwards across the North Sea. Not much change occurring in the general distribution of pressure.

Friday, 26th March, 1909.

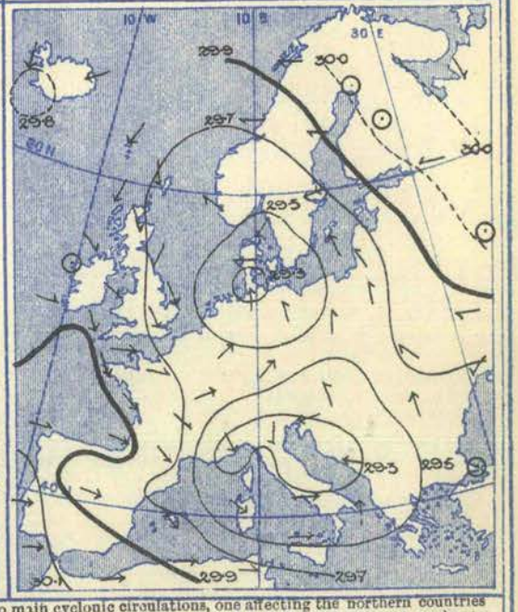
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine in many parts of the United Kingdom, the west of Norway, and in a few localities elsewhere, but overcast and unsettled generally, with sleet showers at Wick, rain at Yarmouth and at many stations scattered over a large area on the Continent. Snow very general in the south of Scandinavia and also in the north of Russia. A little rain later in some parts of these Islands and over the adjacent countries of the Continent, heavy rain in southern Italy and on the shores of the Adriatic, nearly half an inch at Prague, and heavy snow in Sweden.

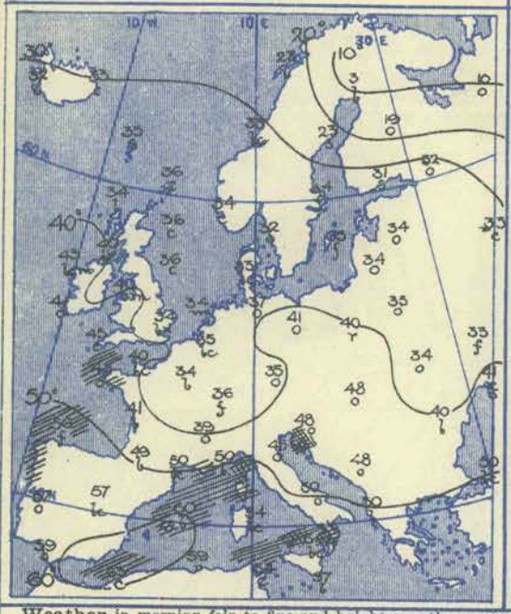
Temperature fallen over our Islands, France, and the Netherlands. Readings in morning ranging from above 60° at some places in the far south of our area to 40° or below over the Continent as a whole and a large portion of this country, and to below 32° in the north-east. Lowest reading, 4° at Haparanda. Maxima during day below 50° in most parts of this country, and below 45° on the east coast; above 50° over the greater portion of France and Austria, and above 60° in various Italian and Spanish localities. Thermometer rising to above 70° at Barcelona and on the coast of Algeria, and touching 81° at La Calle.

Wind in morning showing two main cyclonic circulations, one affecting the northern countries and the other the Mediterranean region. Northerly and North-Westerly current moderate to strong over these Islands, and that from the North-Eastward fresh to strong over the south of Scandinavia. A North-Westerly gale prevailing at Palma, a high Westerly wind at Alicante, and a strong breeze from that quarter at Algiers and Palermo. A Northerly gale blowing at Reykjavik. No general change later in day, but wind backing somewhat in the west of Ireland, and increasing to a gale from the North-Eastward at Stockholm.

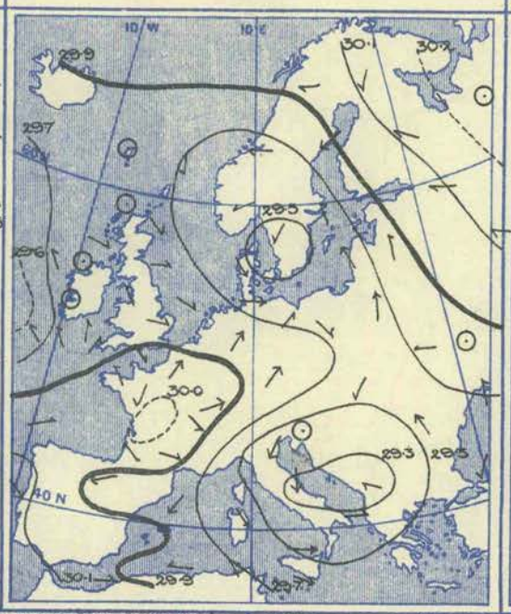
Barometer in morning above 30·1 ins. in Portugal. Below 29·3 ins. in a depression centred over northern Italy, and below 29·0 ins. in another having its minimum over the north of Holland. Relatively low in less important systems over Iceland and near St. Petersburg. Dutch disturbance moving slowly eastwards during day, and that over Italy increasing in size and undergoing some modification in form. Little change in the general distribution, but a fresh fall of the mercury setting in over the south-west of these Islands during night.

Saturday, 27th March, 1909.

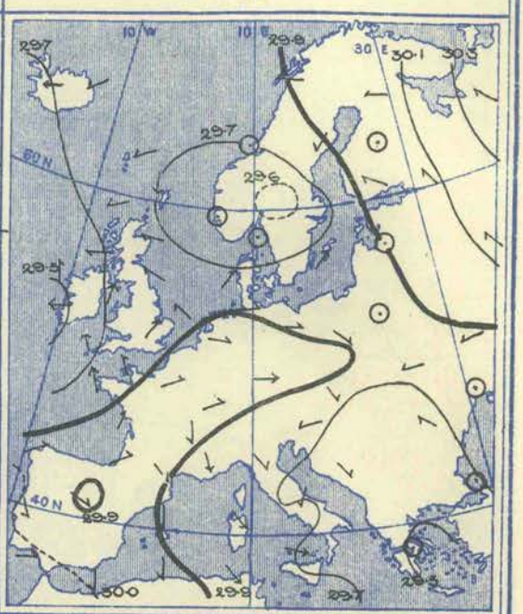
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over the greater part of these Islands, Norway, and France, as well as at some stations on the shores of the Mediterranean. Very cloudy or overcast in most other regions, with snow in a few northern localities and at Flushing and Aix-la-Chapelle, and rain at Copenhagen, Breslau, and Pesaro. Some rain later in most parts of Ireland and England and also in Greece and Italy, and as much as 1·0 in. at Palermo. Rather heavy snow in some Swedish localities.

Temperature fallen over this country and France, changed little generally. Readings in morning about 32° at Bath and Nairn, and below 40° over these Islands as a whole, and also over the major portion of the Continent, and much below 32° in the extreme north-east and north. Above 50° in the Spanish Peninsula and the south generally, and about 60° in places. Maxima during day about 50° in England and Ireland, between 50° and 60° over the more southern countries, and above 70° in some parts of the Spanish Peninsula and Algeria.

Wind in morning light to fresh from the Southward on the Atlantic to the west of Ireland, and light from between West and North-West over most of Great Britain. A complete cyclonic circulation prevailing around Denmark, and a similar wind system over Italy, the Adriatic, and the surrounding regions. Westerly to North-Westerly current strong on various shores of the Mediterranean. A North-Easterly gale in the east of Iceland. Freshening breezes from the Southward and South-Eastward later in the west and south of these Islands, but no general change on the Continent.

Barometer in morning about 30·1 ins. in the extreme south-west of our area, and also over the White Sea region. Below 29·7 ins. in a depression to the westward of Ireland, below 29·5 ins. in another over Denmark, and less than 29·3 ins. in a third in the south of Europe. Pressure giving way briskly during day in the south-west of these Islands, and a depression extending steadily eastwards from the Atlantic. Disturbance over Denmark moving northwards, and that over southern Europe becoming less deep.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1909.												
1	March 22nd, 3.38 p.m. to 4.57 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	81° 80% 157°, 5	81° 82% 151°, 8	80° 83% 146°, 9					79° 84% 146°, 12	660	Dull, overcast, sunny intervals. Light breeze on ground, probably downward current preventing kites from rising.
2	March 23rd, 9.28 a.m. to 12.0 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	77° 96% 90°, 6	77° 92% 110°, 9	77° 88% 112°, 9					77° 84% 112°, 8·1	670	Dull, overcast, sunny intervals, gentle breeze. Variable upward current at about 640 m. Kite persisted in turning over and falling.
3	March 24th, 10.20 a.m. to 11.2 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	81·5° 100% 180°, 7	81° 100% 190°, 13	81° 100% 210°, 18					81° 100% 210°, 19	850	Kite lost sight of in fog immediately.
4	March 24th, 12.48 p.m. to 2.50 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	83° 99% 202°, 4	81° 99% 206°, 6	81° 99% 210°, 8	76° 98% 236°, 17	75° 99% 232°, 16			74° 100% 225°, 16	1,830	Dull, overcast, wet. Ground wind gusty. Lower clouds reached at 610 m.
5	March 25th, 10.0 a.m. to 10.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	82° 80% 250°, 12	80·5° 80% 250°, 16	78·5° 80% 269°, 20						500	Clouds not reached.
6	March 25th, 11.16 a.m. to 1.10 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	77° 100% 337°, 5	76° 100% 334°, 7	76° 100% 332°, 8	74° 100% 307°, 17				72° 100% 292°, 19	1,400	Dull, overcast and wet. Ground wind gusty and variable. Lower clouds at 490 m. Kite and wire covered with ice. Second kite tried but failed, probably due to falling of first kite when covered with ice.
7	March 26th, 9.54 a.m. to 1.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	76·3° 70% 355°, 7	76° 74% 350°, 9	75° 74% 346°, 10	71·5° 80% 330°, 15	68·5° 80% 337°, 18			66·5° 80% 337°, 20	1,950	Dull, overcast to clear later. Moderate breeze on ground dying off. A little snow on the wire causing sag.
8	March 26th, 10.5 a.m. to 11.31 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	78·5° 75% 335°, 8	78° 80% 335°, 14	74·5° 90% 335°, 17	71·5° 100% 335°, 17					1,000	Cumulus. Wind variable, but backing during the ascent. T.S. in afternoon.
9	March 27th, 5.31 p.m. to 5.39 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	76·3° 98% 180°, 4	75·8° 100% 200°, 4						75·8° 100% 200°, 4	450	Fine to overcast and rain. Light wind. Observations by captive balloon.

APPARATUS USED IN THE KITE ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9
No. of Kites	2	1	1	1	1	1	2	1	—
Area of Surface (sq. metres) ..	14·1	7·1	4	7·1	4	7·1	14·1	4	—
Capacity of Balloon (cub. metres)	—	—	—	—	—	—	—	—	—
Length of Wire (metres) ..	610	430	750	2,900	500	1,830	2,440	1,700	29 300

63, Victoria Street, London, S.W. *March 31st, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 13. THIRTEENTH WEEK, SUNDAY MARCH 28TH TO SATURDAY APRIL 3RD, 1909. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather continued unsettled over the Kingdom generally, but was mostly fair in the north of Scotland until Friday, and became fine and dry in the more southern and eastern districts of England after Wednesday. The rain was very heavy at some places in the north-west on Sunday, and in Ireland and the west of Scotland towards the end of the week. Solar and lunar halos were observed in many localities on Friday and Saturday.

Temperature was below the average in Scotland and in Ireland N., but above it in nearly all other districts. In Scotland E. the deficit amounted to 3°·6. The highest of the maxima were recorded on March 29th at most English stations, on March 28th or 29th at most places in the south of Ireland, and late in the week in Scotland and the north of Ireland. They varied from 61° in England E. and 60° in England N.E., England S.W., and Ireland S., to 50° in Scotland N. The lowest of the minima, which occurred on April 2nd in most localities, ranged from 20° in Scotland N., 21° in Scotland E. and 23° in England S.E. to 34° in Ireland S. and to 39° in the English Channel. The lowest grass readings reported were 13° at Newton Rigg, 14° at West Linton, 16° at Llangammarch Wells, 17° at Hereford, and 18° at Balmoral, Buxton, Oxford and Kew.

Mean Temperature of the Sea.—At nearly all stations on the coast of Great Britain the water was colder than during the corresponding week of last year; on the south-west coast, however, and also off the south-west and north-west of Ireland, it was warmer. The actual values ranged from 48°·8 at Seafield, and 48°·6 at Plymouth to 40°·4 at Burnmouth, Berwick, and to 40 ·3 at Cromarty and the Shipwash Lighthouse.

Rainfall was above the average in all districts except Scotland N., the excess being very large in Ireland, the west and east of Scotland, and the north of England. More than an inch fell at Douglas, Isle of Man, on Sunday, and about 1·5 in. in several parts of Ireland either on Friday or Saturday. At Cahir, the total fall for Friday and Saturday was 2·24 ins., at Waterford 2·42 ins. and at Roche's Point 3·03 ins. At Dublin as much as 1·58 in. fell on Saturday. Some very heavy falls were also experienced on that day in the western districts of Scotland; at Poltalloch the measurement was 1·3 in. and at Rothsay 1·6 in.

Bright Sunshine was considerably less than the average in all districts. The percentage of the possible duration ranged from 29 in the English Channel and 27 in England E. to 11 in Scotland W. and England S.W., 7 in Ireland S. and to 6 in Ireland N.

Barometer and Wind.—During the greater part of the week the barometer was high both in the Icelandic region and the Spanish Peninsula, while depressions from the Atlantic travelled eastwards across these Islands. After the rapid passage of one of these systems during Wednesday the barometer rose very quickly, and an anticyclone spread over the country from the northward. The system continued to increase in size and intensity as it moved slowly eastwards over the North Sea on Saturday, but a decided fall of the barometer set in over Ireland and the west of Scotland. With the cyclonic distribution the wind was mainly Westerly or South-Westerly in the south, and Easterly in the north, and sometimes blew strongly, while late in the week, when pressure was giving way in Ireland, a strong to high Southerly or South-Easterly wind set in along all our western coasts, and attained the force of a gale at Roche's Point and Stornoway.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 108.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Light	Very heavy	Very heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Very heavy	Heavy
	Sunshine ...	Moderate	Very scanty	Scanty	Scanty	Scanty	Scanty	Very scanty	Scanty	Very scanty	Very scanty	Very scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 4 weeks from Mar. 7th, 1909.	Warmth ...	0 * 1	0 * 4	0 * 2	0 * 0	0 * 2	0 * 2	1 * 1	1 * 2	0 * 2	1 * 1	0 * 2	0 * 1
	Rainfall ...	0 * 3	3 * 0	3 * 0	3 * 0	2 * 0	2 * 0	1 * 1	2 * 1	1 * 0	1 * 1	2 * 1	4 * 0
	Sunshine ...	0 * 1	0 * 3	0 * 3	0 * 4	0 * 3	0 * 3	1 * 3	1 * 2	1 * 2	0 * 2	1 * 2	0 * 3

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTEENTH WEEK—March 28th to April 3rd, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	50	20	43·9	34·0	38·8	− 1·6	5	− 12	28	+ 1	2	− 2	0·39	−0·52	23	− 5	26	− 5
Eastern																		
1. SCOTLAND, EAST	52	21	42·6	31·9	37·1	− 3·6	2	− 20	35	+ 6	5	+ 1	1·24	+0·75	11	− 19	13	−21
2. ENGLAND, N.E.	60	28	48·6	37·0	42·6	+ 0·8	25	+ 2	14	− 9	3	0	1·11	+0·73	20	− 13	23	−14
3. ENGLAND, EAST	61	26	50·3	38·1	44·0	+ 1·2	30	0	11	− 13	4	+ 1	0·59	+0·23	24	− 10	27	−11
4. MIDLAND COUNTIES	59	25	50·2	37·5	43·6	+ 0·9	30	− 2	13	− 12	3	− 1	0·55	+0·16	18	− 12	21	−14
5. ENGLAND, S.E.	59	23	49·3	39·0	44·0	0·0	27	− 5	8	− 8	4	+ 1	0·63	+0·27	19	− 14	22	−16
Western																		
6. SCOTLAND, WEST	52	25	45·0	35·6	40·2	− 1·9	8	− 14	24	+ 3	5	+ 1	1·46	+0·70	10	− 21	11	−24
7. ENGLAND, N.W.	57	25	47·8	37·8	42·7	+ 0·1	23	− 1	12	− 7	5	+ 1	1·19	+0·63	13	− 16	14	−18
8. ENGLAND, S.W.	60	28	48·8	40·4	44·5	+ 0·3	24	− 8	4	− 10	5	+ 1	0·67	+0·08	10	− 24	11	−28
9. IRELAND, NORTH	52	32	45·6	38·5	42·0	− 1·0	10	− 16	10	− 8	5	0	1·28	+0·63	6	− 24	6	−27
10. IRELAND, SOUTH	60	34	50·8	42·0	46·3	+ 1·7	30	− 3	0	− 14	6	+ 2	2·55	+1·87	7	− 27	7	−30
11. ENGLISH CHANNEL	58	39	52·6	44·2	48·3	+ 1·7	44	+ 7	0	− 4	5	+ 1	1·01	+0·54	25	− 14	29	−16

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 4 Weeks, March 7th to April 3rd, 1909.

0. SCOTLAND, NORTH	53	20	*	*	*	*	16	− 31	135	+ 14	17	− 3	1·71	−2·32	70	− 18	21	− 6
Eastern																		
1. SCOTLAND, EAST	52	7	*	*	*	*	9	− 58	167	+ 35	20	+ 4	3·95	+1·87	50	− 52	15	−16
2. ENGLAND, N.E...	60	21	*	*	*	*	46	− 32	120	+ 14	19	+ 5	2·97	+1·38	71	− 44	22	−13
3. ENGLAND, EAST	61	21	*	*	*	*	60	− 39	97	− 16	19	+ 6	2·01	+0·61	76	− 39	23	−12
4. MIDLAND COUNTIES.. ..	59	17	*	*	*	*	66	− 36	116	+ 2	17	+ 4	1·88	+0·33	72	− 31	22	− 9
5. ENGLAND, S.E.	59	13	*	*	*	*	57	− 46	83	− 1	20	+ 8	2·30	+0·69	78	− 36	24	−11
Western																		
6. SCOTLAND, WEST	57	19	*	*	*	*	46	− 23	108	+ 11	15	− 2	3·16	−0·01	71	− 32	22	−10
7. ENGLAND, N.W...	59	19	*	*	*	*	60	− 16	97	+ 10	17	+ 2	2·50	+0·34	86	− 14	26	− 4
8. ENGLAND, SW	60	12	*	*	*	*	60	− 43	79	+ 9	23	+ 8	3·65	+1·24	83	− 32	25	−10
9. IRELAND, NORTH	56	22	*	*	*	*	55	− 32	78	− 4	19	+ 1	2·97	+0·53	68	− 30	21	− 9
10. IRELAND, SOUTH	60	23	*	*	*	*	92	− 21	64	0	23	+ 7	5·03	+2·37	86	− 26	26	− 8
11. ENGLISH CHANNEL	58	30	*	*	*	*	112	− 11	26	0	25	+ 9	3·98	+1·99	110	− 29	33	− 9

THE YEAR.—Aggregates, &c., for the Period of 13 Weeks, January 3rd to April 3rd, 1909.

0. SCOTLAND, NORTH	56	13	*	*	*	*	60	− 47	444	− 7	62	− 4	10·63	−4·36	167	− 9	20	− 1
Eastern																		
1. SCOTLAND, EAST	58	1	*	*	*	*	48	− 87	561	+ 52	51	0	8·80	+1·73	173	− 53	20	− 6
2. ENGLAND, N.E.	60	14	*	*	*	*	81	− 77	515	+108	45	− 2	5·84	+0·86	217	− 24	25	− 3
3. ENGLAND, EAST	61	12	*	*	*	*	95	− 94	502	+ 50	49	+ 2	4·26	−0·51	247	− 8	28	− 1
4. MIDLAND COUNTIES.. ..	59	8	*	*	*	*	109	− 97	561	+111	42	− 4	4·81	−0·92	216	− 6	24	− 1
5. ENGLAND, S.E...	59	0	*	*	*	*	121	−100	452	+109	45	+ 1	5·25	−0·81	266	+ 19	30	+ 2
Western																		
6. SCOTLAND, WEST	57	11	*	*	*	*	100	− 58	383	+ 24	50	− 7	11·25	−0·77	185	− 24	21	− 3
7. ENGLAND, N.W.	59	10	*	*	*	*	118	− 52	421	+ 83	48	− 3	7·20	−0·63	247	+ 34	28	+ 4
8. ENGLAND, S.W.	60	7	*	*	*	*	144	−110	373	+104	51	0	7·56	−1·85	272	+ 21	30	+ 2
9 IRELAND, NORTH	56	14	*	*	*	*	176	− 36	255	− 44	62	+ 2	9·22	+0·25	177	− 39	20	− 5
10. IRELAND, SOUTH	60	15	*	*	*	*	260	− 39	241	+ 12	60	+ 6	9·88	−0·33	223	− 25	25	− 3
11. ENGLISH CHANNEL	58	25	*	*	*	*	287	− 55	151	+ 46	55	− 2	8·14	+0·24	325	+ 18	36	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	NAMES OF STATIONS.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*44*	*3rd*	*34*	*28th*	*42·2*	*35·8*	*38·9*	—	*1*	*21*	*3*	*0·31*	—	*48·8*	—	*56*		*Balta Sound.*
	a Sumburgh Head ..	43	31st, 3rd	31	28th	42·1	33·7	37·8	- 1·6	0	28	2	0·14	- 0·47	31·8	+ 4·1	36	+ 5	Deerness.
	a Stornoway	46	28, 30, 31, 2	32	28th	45·3	36·4	40·7	- 0·1	9	21	2	0·51	- 0·33	31·6	+ 3·2	36	+ 4	Stornoway.
	a Castlebay, Barra 1*sd.*	*47*	*28th*	*37*	*28th*	*44·7*	*39·3*	*41·9*	- *1·8*	*8*	*11*	*2*	*0·91*	—	*19·7*	—	*22*	—	*Castlebay.*
	a Wick	47	28th	24	28th	43·9	33·4	38·5	- 2·2	5	30	1	0·63	+ 0·15	*	*	*	*	
	p Strathpeffer	47	2nd	28	2nd	43·2	33·9	38·4	- 2·2	3	28	3	0·90	+ 0·40	15·0	- 9·8	17	- 11	Strathpeffer.
	p Glencarron .. S	49	2nd, 3rd	27	2nd	43·4	33·0	38·1	- 1·5	4	32	3	0·27	- 1·31	*	*	*	*	
	p Fort Augustus S	50	2nd	20	2nd	44·0	33·4	38·5	- 2·1	6	30	3	0·10	- 0·61	13·2	- 7·8	15	- 9	Fort Augustus.
	p Fort William S	50	2nd	22	2nd	45·5	34·2	39·7	- 2·1	10	29	2	0·16	- 1·16	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	46	28th, 2nd	26	28th	43·4	33·3	38·2	- 3·5	4	30	5	0·95	+ 0·47	*14·9*	—	*17*	—	*Gordon Castle.*
	a Nairn	52	2nd	23	28th	44·9	29·3	36·9	- 4·0	8	45	4	0·70	+ 0·32	18·5	—	21	—	Nairn.
	a Aberdeen	47	28th	32	28th	43·0	35·6	39·2	- 2·1	3	22	4	1·80	+ 1·29	10·4	- 19·7	12	- 22	Aberdeen.
	a Balmoral	46	3rd	21	2nd	41·3	29·9	35·4	- 2·0	0	46	4	0·74	+ 0·14	10·6	—	12	—	Crathes S.
	p Crieff .. .. S	45	1st, 2nd	25	2nd	42·3	32·3	37·2	- 4·6	1	33	5	1·22	+ 0·60	10·5	—	12	—	Balruddery
	a Leith	48	2nd, 3rd	28	2nd	43·4	32·9	38·0	- 4·5	4	32	5	1·47	+ 1·16	8·0	- 15·7	9	- 18	Edinburgh.
	a West Linton .. S	45	2nd	22	2nd	39·5	30·2	34·7	- 4·6	0	51	5	1·10	—	*12·0*	—	*14*	—	*West Linton.*
	p Marchmont .. S	48	28th, 3rd	29	28th	43·1	32·0	37·4	- 2·8	3	35	5	1·96	+ 1·42	8·2	- 19·2	9	- 22	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	47	30th, 3rd	28	28th	44·2	35·4	39·7	- 1·5	6	24	5	1·99	+ 1·47	14·8	—	17	—	Cockle Park.
	a Shields	47	30th	33	28th, 3rd	44·7	35·3	39·9	- 1·9	8	25	4	1·21	+ 0·83	*13·2*	- *9·1*	*15*	- *10*	*Newcastle.*
	p Durham	51	30th	30	28th	44·6	34·8	39·6	- 1·6	7	26	4	1·50	+ 1·13	15·7	- 11·8	18	- 14	Durham.
	a, North. *p* Rounton .. M	56	30th	33	3rd	48·6	36·6	42·4	+ 1·4	25	15	4	1·22	+ 0·77	*	*	*	*	
	p Scarborough .. M	57	29th	34	3rd	52·3	39·3	45·6	+ 3·3	37	8	3	0·96	+ 0·55	17·5	—	20	—	Scarborough.
	p York	57	29th	34	2nd, 3rd	50·9	38·9	44·7	+ 1·9	32	9	3	0·82	+ 0·44	17·0	- 9·0	19	- 10	York.
	b, South. *a* Spurn Head ..	55	29th	36	1st, 3rd	47·9	38·7	43·2	+ 0·9	22	9	2	0·47	+ 0·19	*	*	*	*	
	a Lincoln	60	29th	30	3rd	52·4	37·1	44·5	+ 1·7	38	14	3	0·77	+ 0·43	29·9	—	34	—	Skegness.
	a Fulbeck	59	29th	29	2nd	51·7	36·4	43·8	+ 1·0	36	16	2	1·09	+ 0·73	27·0	—	31	—	Rauceby.
															30·7	—	*35*	—	*Lowestoft.*
3. ENGLAND, E.	*p* Cromer	61	29th	32	3rd	51·7	39·0	45·2	+ 3·4	35	8	4	0·37	—	28·9	—	33	—	Cromer.
	p Hillington .. M	61	29th	27	3rd	50·5	37·6	43·9	+ 1·3	32	12	3	1·04	+ 0·64	23·1	- 6·1	26	- 7	Hillington.
	a, North. *a* Yarmouth	56	29th	34	28th, 2nd	48·7	37·9	43·1	+ 1·4	25	11	4	0·45	+ 0·11	33·4	—	38	—	Yarmouth.
	a Norwich	60	29th	27	3rd	51·9	37·9	44·7	+ 2·4	36	11	4	0·63	—	*	*	*	*	
	p Geldeston	61	29th	26	3rd	51·4	36·8	43·9	+ 1·4	35	15	4	0·40	+ 0·04	26·2	- 5·8	30	- 7	Geldeston.
	p Cambridge	60	29th	28	3rd	51·9	38·1	44·8	+ 1·6	36	11	4	0·64	+ 0·33	26·7	- 4·6	30	- 5	Cambridge.
	a Felixstowe	*49*	*30th, 31st*	*29*	*2nd*	*46·6*	*38·3*	*42·3*	- *0·5*	*18*	*10*	*4*	*0·36*	—	*22·9*	—	*26*	—	*Felixstowe.*
	b, South. *a* Clacton-on-Sea ..	49	30th, 31st	31	2nd	46·3	38·4	42·2	- 0·2	17	10	4	0·24	—	19·0	—	22	—	Clacton.
	a Rothamsted ..	57	29th	28	2nd	49·7	37·5	43·4	+ 1·0	29	13	4	0·99	+ 0·59	17·1	- 12·5	19	- 15	Rothamsted.
	a Shoeburyness ..	*56*	*29th*	*30*	*2nd*	*48·9*	*39·6*	*44·1*	+ *0·2*	*25*	*7*	*3*	*0·20*	- *0·06*	*23·5*	—	*27*	—	*Southend.*
	p Tottenham	58	29th	29	2nd	50·6	39·5	44·9	+ 1·4	31	7	4	0·51	—	17·6	—	20	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	53	29th	31	2nd, 3rd	47·7	36·1	41·7	+ 0·4	16	23	4	1·36	+ 0·89	21·6	—	25	—	Harrogate.
	a Bawtry	59	29th	30	2nd	53·7	37·1	45·2	+ 2·4	43	14	3	0·62	+ 0·29	20·6	- 5·1	23	- 6	Worksop.
	p Buxton .. M	*51*	*29th*	*24*	*2nd*	*46·7*	*35·3*	*40·8*	+ *1·2*	*13*	*25*	*4*	*0·90*	+ *0·06*	*25·5*	—	*29*	—	*Buxton.*
	a, East. *a* Nottingham ..	59	29th	29	2nd	51·7	37·7	44·5	+ 1·8	36	12	3	0·75	+ 0·41	29·6	—	34	—	Nottingham.
	p Birmingham, Edgbsn	57	29th	31	2nd	49·4	38·7	43·9	+ 1·4	27	9	3	0·30	- 0·11	11·5	—	13	—	Birmingham.
	a Raunds .. M														*	*	*	*	
	a Oxford	59	29th	27	2nd	50·9	37·9	44·2	+ 0·7	33	11	3	0·27	- 0·04	19·0	- 10·2	22	- 12	Oxford.
	b, West. *a* Cheadle .. M	53	29th	28	2nd	48·1	36·2	42·0	+ 0·7	17	16	4	1·07	+ 0·59	22·5	—	26	—	Sheffield.
	p Shrewsbury ..	55	29th	25	2nd	50·0	38·1	43·9	+ 0·6	30	11	3	0·35	—	*	*	*	*	
	a Hereford .. M	59	29th	25	2nd	50·5	37·8	44·0	+ 0·5	32	12	3	0·25	- 0·14	*	*	*	*	
	a Cirencester	56	29th	28	2nd	49·1	38·0	43·4	+ 1·3	27	11	3	0·29	- 0·13	8·3	- 21·5	10	- 25	Cirencester.
	a Bath	55	29th	29	2nd	50·4	37·0	43·5	- 0·1	32	14	2	0·26	- 0·21	10·9	—	13	—	Bath.
															31·2	—	*36*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	59	29th	30	2nd	50·8	39·5	45·0	+ 1·2	32	7	4	0·55	+ 0·19	18·6	- 9·4	21	- 11	Kew.
	a Marlborough ..	54	30th	23	2nd	49·3	37·2	43·1	+ 1·4	28	13	4	0·71	+ 0·21	9·3	- 17·8	11	- 20	Marlborough.
	a Margate	56	29th	36	3rd	53·2	40·1	45·0	+ 1·7	29	5	4	0·58	+ 0·26	30·4	- 0·6	35	- 1	Margate.
	a Wisley, Surrey ..	58	29th	27	2nd	50·4	39·2	44·6	+ 0·6	30	8	4	0·64	—	17·5	—	20	—	Wisley.
	a Swarraton .. M	59	29th	25	2nd	49·9	38·0	43·8	+ 1·0	29	11	4	0·73	+ 0·25	20·2	—	23	—	Worthing.
	a Tunbridge Wells M	57	29th	29	2nd	49·3	37·7	43·3	+ 0·2	27	12	4	0·69	+ 0·23	18·8	- 12·5	22	- 14	Tunbridge Wells.
	a Dungeness	50	29th	29	2nd	47·3	37·3	42·2	- 1·0	21	13	4	0·51	+ 0·16	18·4	—	21	—	Littlestone.
	p Hastings	50	29th	31	2nd	47·2	39·0	43·0	- 1·1	20	8	4	0·50	+ 0·06	*18·2*	- *16·2*	*21*	- *19*	*Hastings.*
	p Southampton ..	59	29th	30	2nd	50·1	40·1	45·0	- 0·8	29	5	4	0·71	+ 0·24	17·5	- 14·8	20	- 17	Southampton.
	a Ventnor	53	29th	34	2nd	48·6	41·7	45·1	- 0·1	23	1	4	0·70	+ 0·29	21·5	- 14·8	25	- 17	Ventnor.
															19·6	- 14·6	23	- 17	Eastbourne.
LONDON	*a Westminster* ..	*59*	*29th*	*33*	*28th*	*51·0*	*40·0*	*45·3*	+ *1·5*	*32*	*6*	*4*	*0·58*	+ *0·22*	*18·1*	- *1·5*	*21*	- *2*	*Westminster.*
	a Greenwich	*62*	*29th*	*29*	*2nd*	*52·4*	*38·7*	*45·4*	+ *0·8*	*38*	*9*	*4*	*0·47*	+ *0·11*	*23·8*	- *2·6*	*27*	- *3*	*Greenwich.*
6. *a*, SCOTLAND. W. ..	*p* Laudale	48	1st	29	2nd	45·7	35·5	40·5	- 2·4	10	25	2	1·18	- 0·17	*	*	*	*	
	a Poltalloch .. S	52	1st	27	1st	46·3	35·1	40·5	- 1·4	12	26	3	1·48	+ 0·76	*	*	*	*	
	p Glasgow	46	2nd	31	2nd	42·4	35·2	38·7	- 3·0	1	23	5	0·93	+ 0·41	8·5	- 14·2	10	- 16	Glasgow.
	p Rothesay .. S	48	2nd	35	2nd	44·3	37·3	40·7	- 1·8	6	17	6	1·89	+ 1·18	*	*	*	*	
	a Kilmarnock ..													—		—			*Kilmarnock.*
	a Colmonell .. S	52	1st	27	2nd	45·3	34·6	39·8	- 2·8	9	27	4	0·95	+ 0·26	*	*	*	*	
	p Dumfries ..	51	2nd	29	2nd	45·2	37·0	41·0	- 1·4	9	19	5	1·12	+ 0·52	*	*	*	*	
	p Cally, Gatehouse S	49	1st	25	2nd	44·3	33·0	38·5	- 3·6	6	32	6	1·73	+ 0·93	*	*	*	*	
b, ISLE OF MAN ..	*p* Douglas	49	28th, 31st	35	28th	46·3	37·4	41·7	- 0·9	12	18	5	2·39	+ 1·76	11·3	- 23·0	13	- 26	Douglas.
																—		—	Hoylake.
7. *a*, ENGLAND, N.W. ..	*p* Aspatria	48	2nd	30	2nd	44·2	35·1	39·5	- 1·9	6	25	5	1·76	+ 1·15	17·3	—	20	—	Aspatria.
	p Newton Rigg ..	47	29th	25	2nd	44·4	33·8	38·9	- 1·8	7	29	5	1·16	+ 0·62	16·5	- 12·0	19	- 14	Newton Rigg.
	p Stonyhurst ..	53	29th	31	2nd	49·0	38·0	43·3	+ 1·7	26	11	4	1·14	+ 0·41	18·5	- 9·4	21	- 11	Stonyhurst.
	p Blackpool .. M	54	29th	29	2nd	48·9	38·0	43·3	+ 0·9	26	11	5	1·27	+ 0·77	16·5	- 11·9	19	- 14	Blackpool.
	p M'nch'ster, Prestwich	54	29th	31	2nd	49·4	38·5	43·8	+ 1·4	27	10	4	1·17	+ 0·61	*15·6*	- *6·9*	*18*	- *8*	*Prestwich.*
	a Liverpool (Bidston)	55	29th	32	2nd	49·0	38·7	43·7	- 0·2	26	9	5	0·71	+ 0·30	*17·2*	—	*20*	—	*Liverpool.*
	a Hawarden Bridge ..	57	29th	31	2nd	49·9	39·2	44·4	+ 0·2	29	8	4	0·49	+ 0·16	*16·9*	- *12·7*	*19*	- *14*	*Southport.*
															11·7	—	*13*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	54	29th	32	2nd	48·1	39·7	43·8	- 0·2	22	6	5	0·75	+ 0·28	9·4	- 19·8	11	- 23	Llandudno.
	a Holyhead	51	29th	32	2nd	46·6	37·7	42·0	- 1·9	13	12	6	2·15	+ 1·60	6·0	—	7	—	Aberdovey.
	p Bettws-y-Coed ..	53	29th	27	2nd	48·9	39·0	43·8	- 0·1	25	8	6	1·32	—	?4·9	—	?6	—	Bettws-y-Coed.
															2·9	—	3	—	Aberystwyth.
8. *a*, SOUTH WALES ..	*a* Llangammarch Wells	51	28th, 29th	29	2nd	47·8	37·5	42·5	+ 0·9	22	13	6	0·98	—	5·8	—	7	—	Llangammarch Wells.
	a Pembroke	49	28, 30, 1st	36	2nd	47·6	40·6	44·0	+ 0·2	20	4	6	1·59	+ 1·03	8·5	- 25·3	10	- 29	Pembroke.
	a Cardiff	54	29th	31	2nd	48·8	38·7	43·6	- 1·0	25	9	3	0·42	- 0·22	*12·6*	—	*15*	—	*Cardiff.*
															7·1	- *28·3*	*8*	- *33*	*Tenby.*
	a Clifton	54	29th	31	2nd	50·0	40·4	45·1	+ 0·6	28	4	3	0·26	- 0·26	*9·5*	—	*11*	—	*Clifton.*
	a Shaftesbury .. M	51	29th	28	2nd	47·0	37·4	42·1	- 0·6	20	13	4	0·35	- 0·15	*	*	*	*	
	a Arlington	60	29th	32	2nd	49·0	38·9	43·8	+ 1·2	26	9	5	0·63	- 0·14	13·1	- 20·7	15	- 24	Newquay.
b, ENGLAND, S.W. ..	*a* Cullompton .. M	53	31st	31	2nd	49·7	40·5	45·0	+ 1·0	27	4	4	0·55	+ 0·02	7·9	- 22·8	9	- 26	Cullompton.
	a Portland Bill ..	50	29th	37	2nd	47·1	42·1	44·5	- 0·1	18	0	4	0·37	—	*12·2*	—	*14*	—	*Weymouth.*
	p Plymouth	54	29, 31, 1st	39	2nd	50·8	44·0	47·3	+ 2·2	37	0	5	0·77	+ 0·20	12·7	- 20·6	15	- 24	Plymouth.
	p Falmouth	54	31st	41	21st	50·4	43·7	47·0	+ 1·9	35	0	6	0·86	+ 0·19	15·6	- 19·1	18	- 22	Falmouth.
															14·3	- *20·9*	*16*	- *25*	*Torquay.*
9. IRELAND, N. *a*, West.	*a* Malin Head	47	3rd	34	2nd	43·3	37·9	40·5	- 2·4	4	15	6	0·64	+ 0·17	*	*	*	*	
	a Blacksod Point ..	52	3rd	40	2nd	49·7	41·9	45·7	+ 1·0	26	0	5	0·96	+ 0·17	*	*	*	*	
	p Markree Castle ..	50	3rd	32	2nd	47·0	37·2	42·0	- 0·8	14	13	6	1·16	+ 0·49	3·2	- 24·1	4	- 27	Markree Castle.
b, East.	*p* Armagh	45	1st, 3rd	35	2nd	43·9	37·3	40·5	- 2·2	5	17	5	1·15	+ 0·65	7·8	- 19·1	9	- 22	Armagh.
	a Donaghadee	46	1st	35	1st	44·0	38·4	41·1	- 2·1	6	13	5	2·47	+ 2·00	*	*	*	*	
10. IRELAND, S. *a*, East.	*p* Dublin, City	52	28th, 29th	38	2nd	48·3	41·2	44·7	- 0·2	22	2	6	2·72	+ 2·29	4·3	- 27·1	5	- 31	Phœnix Park.
	a Kilkenny	55	31st	37	2nd	49·7	41·1	45·3	+ 1·3	27	3	6	2·78	+ 2·29	*	*	*	*	
	a Waterford	55	31st	36	28th	50·4	40·7	45·4	+ 1·2	29	4	6	3·74	+ 3·13	*	*	*	*	
	a Birr Castle	56	28th	37	28th, 2nd	49·3	39·4	44·2	+ 1·5	26	7	6	2·37	+ 1·86	1·5	- 27·3	2	- 31	Birr Castle.
b, West.	*a* Foynes	55	28th, 3rd	39	31st	51·9	42·3	47·0	+ 2·2	35	0	7	1·73	+ 1·13	*	*	*	*	
	a Cahir .. .. M	54	28th, 31st	38	2nd	50·9	41·9	46·3	+ 2·5	31	0	6	2·50	—	*	*	*	*	
	a Killarney	60	28th	41	29th	54·1	43·7	48·8	+ 3·8	48	0	7	1·13	+ 0·18	*	*	*	*	
	a Valencia	54	28th	40	29th	52·6	43·7	48·0	+ 2·1	42	0	7	2·19	+ 1·22	7·1	- 24·5	8	- 28	Valencia.
	a Roche's Point ..	54	29th	40	28th	50·1	44·0	47·0	+ 1·7	35	0	7	3·76	+ 3·12	13·2	—	15	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	54	28, 29, 30, 1	44	3rd	53·0	45·6	49·2	+ 2·5	50	0	7	1·43	+ 0·95	18·8	- 16·4	22	- 19	Scilly.
	a Jersey, St. Aubins ..	58	29th	39	2nd	52·7	42·9	47·7	+ 1·6	40	0	5	0·55	+ 0·05	28·4	- 8·9	33	- 10	St. Heliers.
	a Guernsey	57	29th	40	2nd	52·1	44·0	47·9	+ 1·7	41	0	4	1·04	+ 0·49	28·7	- 8·6	33	- 10	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 17·9 hrs.* (*- 15·8 hrs.*), *21* % (*- 18* %); *Bournemouth, 14·3 hrs., 16* %; *Bognor, 20·2 hrs., 23* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	— — ..				
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	39·7
	Crathes	4	24	37·9	38·6
	Balmoral	4	18	—	—
	West Linton	3	14	—	—
	Marchmont ..	4	25	37·2	—
2.	Cockle Park	2	28	39·6	40·0
	Durham	3	28	—	—
	York	—	—	41·9	40·8
	Hull	2	29	42·4	40·6
	Lincoln	—	—	41·9	39·9
	Rauceby	3	25	43·9	41·8
3.	Norwich	3	23	—	—
	Yarmouth	—	—	44·6	43·3
	Lowestoft	2	25	43·8	42·1
	Cambridge	2	25	44·6	43·4
	Clacton-on-Sea ..	2	25	43·5	43·8
	Southend	2	27	43·7	—
	Tottenham	2	25	—	43·0

	STATION.	Grass Min. No. of Obs. of 30° or less	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
4.	Harrogate	3	24	40·6	40·2
	Huddersfield ..	2	24	40·6	38·6
	Buxton	4	18	40·4	39·5
	Sheffield	2	28	41·4	39·7
	Nottingham	2	27	43·3	40·4
	Birmingham	3	19	42·0	42·3
	Oxford	2	18	—	—
	Hereford	1	17	—	—
	Cirencester	1	26	—	—
5.	Margate	0	34	43·6	42·4
	Greenwich	2	19	—	—
	Westminster ..	2	25	—	—
	Kew	3	18	44·2	43·2
	Canterbury	2	25	43·4	43·1
	Tunbridge Wells ..	2	20	45·1	—
	Wisley	2	21	43·7	43·1
	Worthing	1	25	44·6	43·6
	Portsmouth	1	26	45·4	45·1
6.	Glasgow	2	25	—	—
	Rothesay	—	—	—	42·0
	Colmonel	1	24	—	—
	Dumfries	—	—	—	—
	Douglas	0	31	—	—

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
7.	Aspatria	3	24	—	—
	Newton Rigg ..	3	13	40·7	40·1
	Burnley	3	22	40·6	39·6
	Southport	1	19	43·2	42·2
	Manchester City ..	1	26	41·9	41·5
	Bettws-y-Coed ..	1	25	43·1	42·9
8.	Llangammarch Wells	4	16	43·0	42·9
	Cardiff	2	27	43·6	42·4
	Clifton	1	27	—	—
	Bath	—	—	44·8	44·4
	Plymouth	0	34	46·7	—
9.	Armagh	1	29	42·9	43·6
	Markree	2	23	—	—
10.	Dublin, Trin. Coll. ..	0	32	44·7	44·5
11.	Guernsey, Brooklyn	1	35	46·9	45·4

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	43	42	42·4
	Kirkwall	43	40	41·0
	Wick	45	43	44·2
SCOTLAND, E.	Cromarty	42	39	40·3
	Pennan Bay	43	41	42·2
	Aberdeen, Cove Bay ..	43	40	41·1
ENGLAND, N.E.	Burnmouth, Berwick ..	41	39	40·4
	Scarborough	44	41	42·4
ENGLAND, E.	Shipwash Lightship ..	42	39	40·3
	Margate	45	41	42·8
ENGLAND, S.E.	Eastbourne‡	43	42	42·6

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, W.	Lamlash	43	42	42·5
	Ballantrae	45	42	43·5
ENGLAND, N.W.	Port Erin	46	43	44·3
ENGLAND, S.W.	Newquay	47	46	46·7
	Plymouth‡	49	48	48·6
	Salcombe	48	47	47·6
IRELAND, N.W.	Sheephaven	46	45	45·7
	Teelin	48	44	45·8
IRELAND, S.W.	Cleggan	49	46	48·0
	Seafield	51	46	48·8
IRELAND, E.	.. ..			

‡ Only one observation each day.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; —→ = a fresh to strong breeze; —› a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

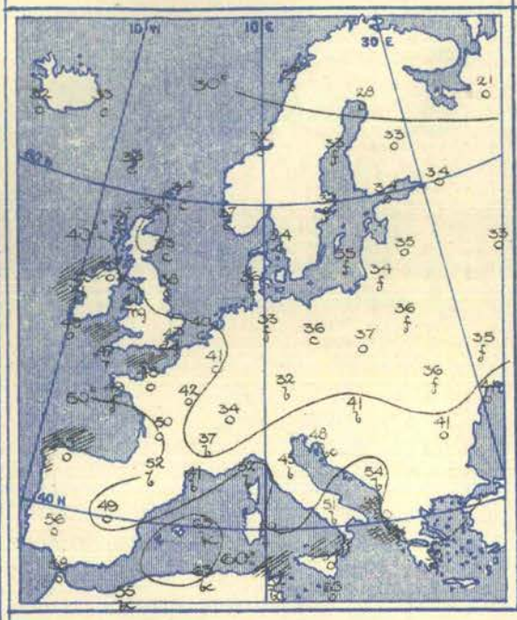
ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = [2]73°, Normal boiling point of water = [3]73°). The figure in the "hundreds" place [2] is not printed in the tables. Values at or below the freezing point of water (73°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Sunday, 28th March, 1909.

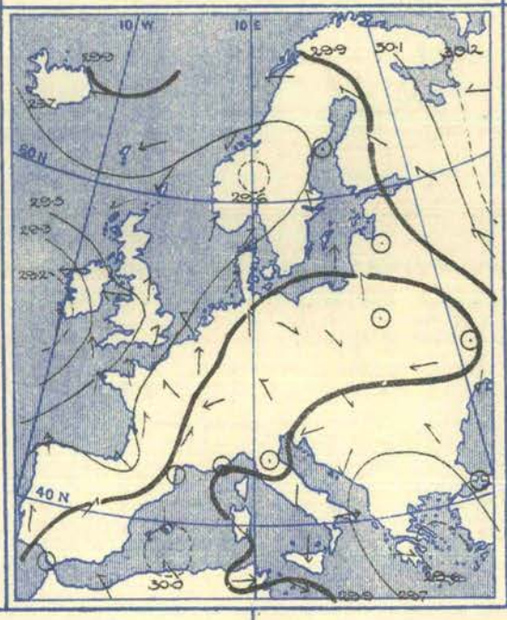
Temperature and Weather.

7 a.m.

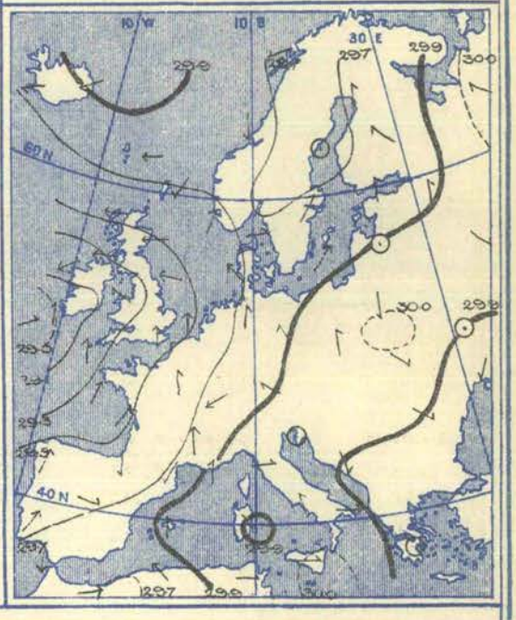


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning rainy over a large portion of the United Kingdom and its immediate neighbourhood, and dull, with some snow, in many parts of Scandinavia. Fair or fine and bright over the Mediterranean and in various localities in central Europe, but rainy at Lemoerg. Considerable or heavy rain later over these Islands and in the south of Russia, and some slighter falls in a few other regions.

Temperature risen over England, France, and Scandinavia, fallen over central Europe. Readings in morning ranging from about 60° at a few stations in the far south to 50° in the west of France, below 40° over the Continent as a whole, to below 30° in the north-east of Scotland, and to 21° at Archangel. Maxima during day above 50° in some parts of England and Ireland, and also in a few places in central Europe, above 60° in the south and south-west of France, in Italy, and the Spanish Peninsula, and above 70° in Algeria.

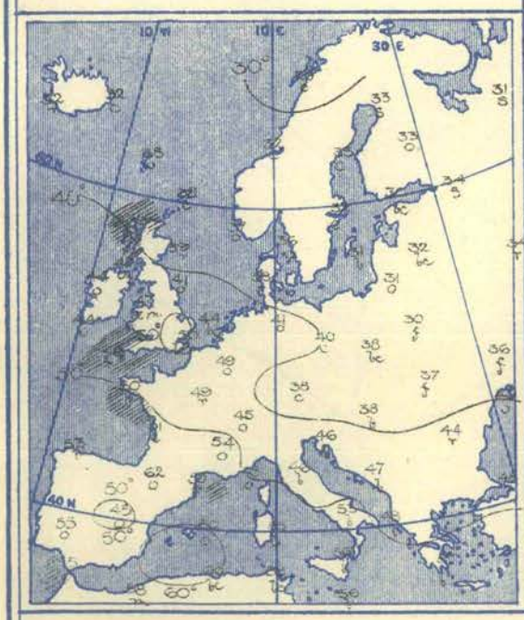
Wind in morning mainly South-Easterly over these Islands, fresh or strong in some exposed places, and moderate to strong from the Southward over the Bay of Biscay. Rather variable over our area generally, but mainly cyclonic in the south and south-east, and anticyclonic over the central and north-eastern regions. Increasing in force from East or North-East during day in Scotland and the north of Ireland, and becoming more Southerly in England.

Barometer in morning above 30·2 ins. in the north of Russia and relatively high in the centre of our area. Below 29·2 ins. in a depression off the south-west of Ireland, and about 29·6 ins. in another system over Norway. Western depression spreading over these Islands during day. Pressure giving way rather decidedly over the whole of this country and the nearer regions of the Continent, and gradient increasing somewhat. Little change taking place within the anticyclonic region.

Monday, 29th March, 1909.

Temperature and Weather.

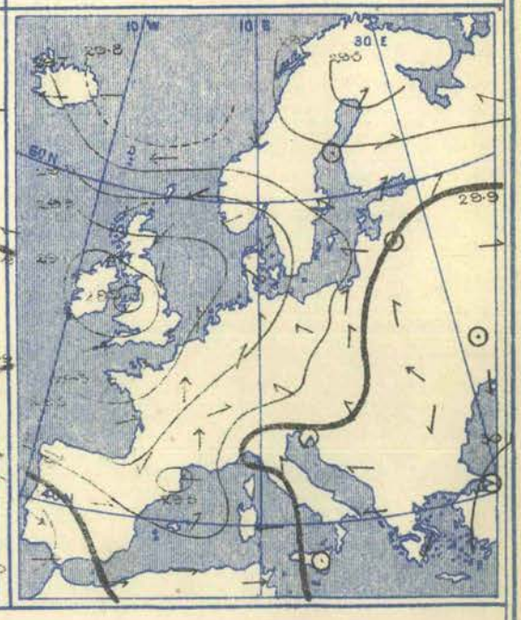
7 a.m.



Barometer and Wind.

7 a.m.

6 p.m.



Weather in morning very unsettled over these Islands and their neighbourhood, with rain in many places. Rain also falling at some places in the south-east of Europe, rain or snow in Russia and the south of Scandinavia. Rain falling generally later over the western countries, and a heavy thunderstorm occurring at Toulouse. Considerable or heavy rain in many French localities - more than 1·2 in. at Cape Sicié.

Temperature risen in most regions. Readings in morning about 50° in the south of England, 62° at Biarritz, and about 60° in various places in the far south. Below 40° at some stations in central Europe, and about 32° in some northern localities. Thermometer rising to 59° during day in London and at Oxford and Nottingham, to above 60° over a large portion of France and at a few stations in Germany, to above 70° in the far south of Spain, and to above 80° at La Calle and Tunis. Maxima higher than of late over our area generally.

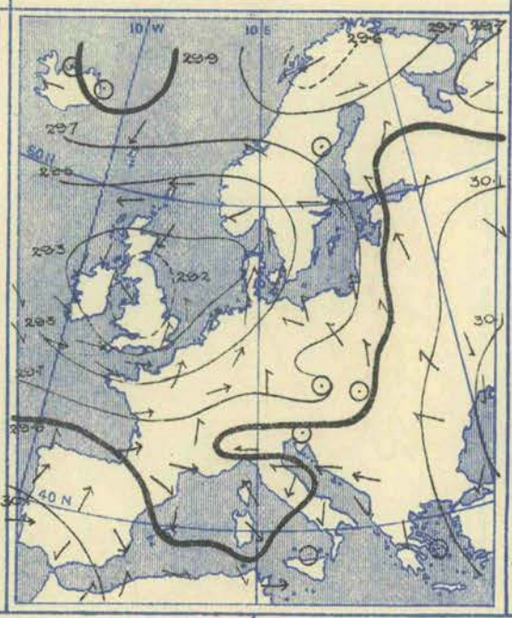
Wind in morning showing a cyclonic circulation over the United Kingdom and its neighbourhood; Southerly current fresh to strong over England and the Channel, and that from North-East of equal force in Scotland and the south of Norway. Light, variable airs prevailing over the eastern parts of our area. Increasing in force from various quarters by evening over the Spanish Peninsula and the Mediterranean, and becoming high from the North-Eastward on some Scottish coasts.

Barometer in morning below 29·0 ins. in a large depression of irregular shape having its minimum off the south of Ireland. Relatively low in the south of Scandinavia, and high in Iceland, Russia, and south-eastern Europe. Main depression travelling north-eastwards during day and barometer rising again in the south-west of these Islands, and pressure increasing briskly in Portugal. Not much change occurring in the general distribution.

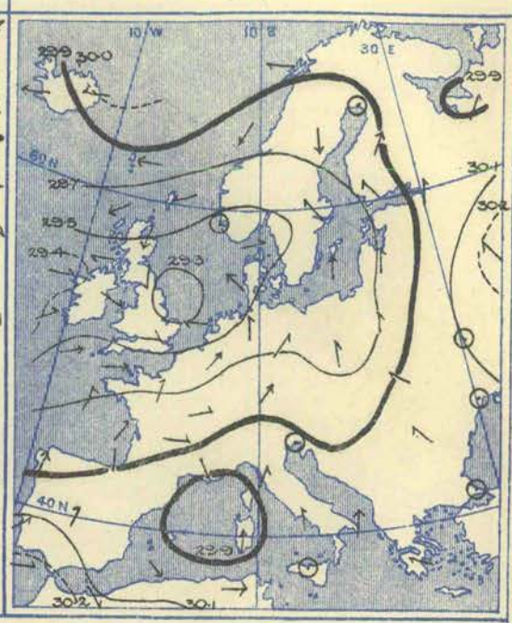
Tuesday, 30th March, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright at several stations in the extreme south and north of our area, but overcast and unsettled generally, with rain in places over a large area. More or less rain experienced later in most regions, nearly an inch at Aberdeen and about 1·6 in. at Oporto.

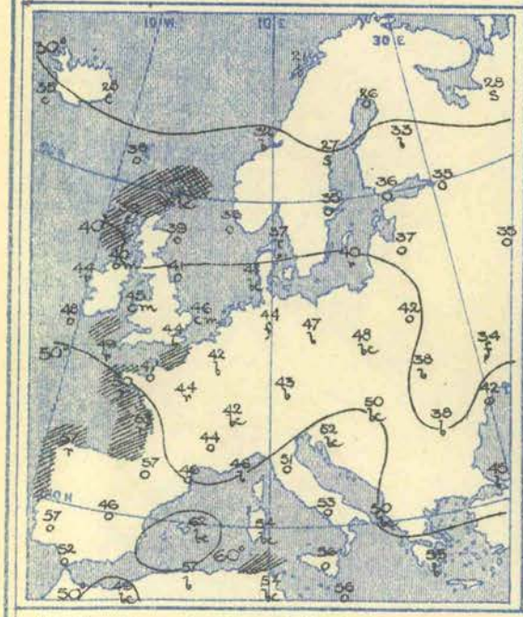
Temperature fallen in most localities. Morning readings ranging from above 55° at some stations in the far south to about 45° in many parts of England and France, to below 40° over a large portion of the Continent, and to below 32° in the north and north-east. Maxima during day 70° at Palermo, 68° on the coast of Algeria, above 60° on many other shores of the Mediterranean and also in several parts of central Europe. Thermometer remaining below 40° at some Scottish stations, and below 50° in many parts of England.

Wind in morning showing a very extensive cyclonic circulation over these Islands and western Europe generally. Westerly current fresh to strong over the Channel and the north of France, and that from the North-Eastward fresh to high on the coast of Scotland and in the south of Norway. Not much change later in day; backing somewhat on the west and south-west coasts of these Islands.

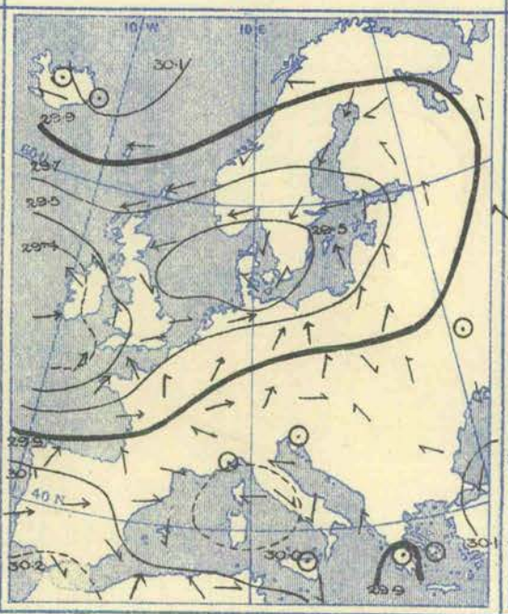
Barometer in morning above 30·1 ins. in the south-west of our area and in some parts of Russia and south-eastern Europe, below 29·2 ins. in a depression of decreasing intensity covering nearly the whole of England. Depression moving eastwards during day and continuing to decrease in depth. A fresh disturbance beginning to extend over our western and south-western districts during night.

Wednesday, 31st March, 1909.

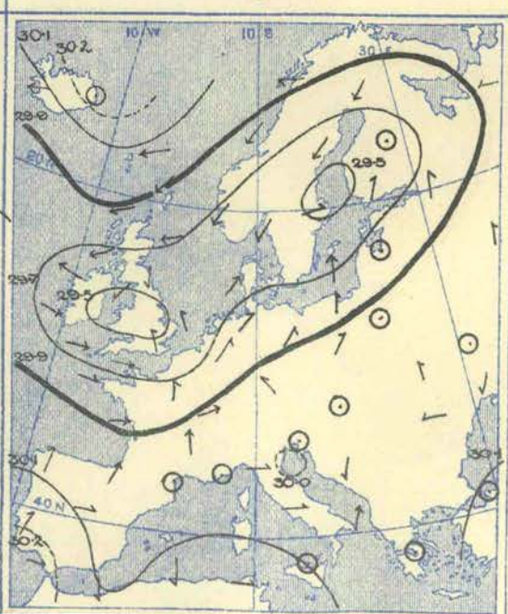
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in various parts of the Mediterranean region, central Europe, the south-east of England, and the north-west of Norway, generally overcast elsewhere, with rain in the south-west of these Islands and in several localities on the Continent, and snow in the north of Sweden and at Archangel. Rain extending to nearly all parts of this country by evening, but not in large quantity, and small amounts falling at many stations in the northern half of the Continent. As much as 0·8 in. experienced at Patras.

Temperature changed little generally, risen in Russia, Poland, and Austria-Hungary. Readings in morning about 45° over much of Ireland, England, France, and the central countries, above 50° in the south, and about 60° at a few stations. Below 32° in the extreme north of Europe only. Rising later to 70° at Algiers, to about 65° at some other southern stations, to above 50° very generally over France and Germany, as well as in various parts of England and Ireland, but hardly exceeding 40° in the east of Scotland.

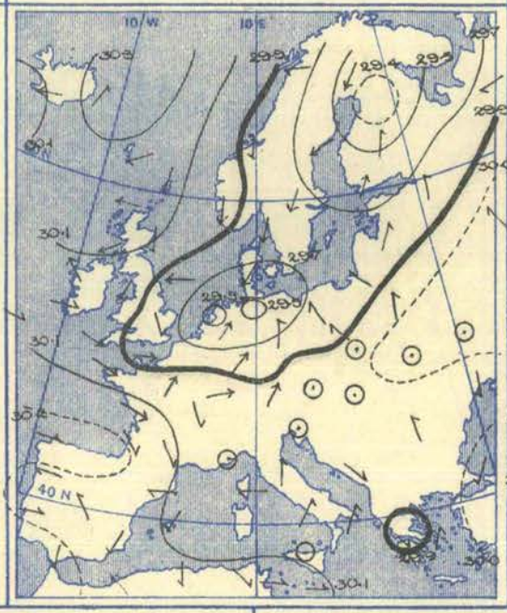
Wind in morning showing two distinct cyclonic circulations—one over the North Sea region, and the other over the west of these Islands and the adjacent portion of the Atlantic. Very little force as a whole, but North-Easterly current fresh to strong in Scotland, and South-Westerly current fresh over the Bay of Biscay. Light airs, mainly cyclonic, prevailing over the Mediterranean. Not much change later in day, but wind increasing in force from the Westward in the south-west of this country, and from the North-Eastward in the north of Sweden.

Barometer in morning above 30·1 ins. in Algeria and the southern half of the Peninsula, in the east of Iceland, and also in central Russia. About 29·4 ins. in a depression over the North Sea, and in another disturbance over Ireland. Relatively low in shallow systems over the Mediterranean and Greece. Main depressions moving eastwards or north-eastwards later, and pressure recovering rather quickly in Ireland. Icelandic high pressure system extending southwards, and barometer rising decidedly in Scotland.

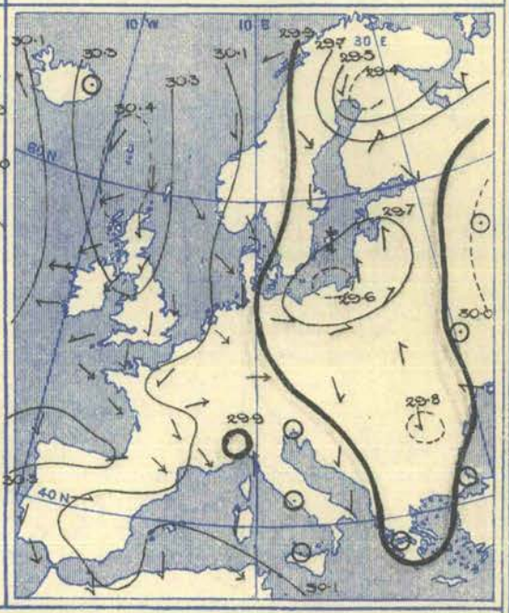
Thursday, 1st April, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying greatly; fine and bright in many parts of southern and central Europe, overcast or very cloudy in several localities, and rainy at Roche's Point, Yarmouth, and at some stations in Holland, Germany, and France. Snow falling in Sweden and Norway. Considerable amounts of snow falling later in various places in northern Europe, and small amounts of rain in some central and southern regions. Condition dry over nearly the whole of these Islands.

Temperature fallen over England, Sweden, the Baltic, and over a large portion of Austria-Hungary, changed irregularly elsewhere. Readings in morning ranging from about 60° at a few stations in the far south to below 40° in most parts of these Islands and in northern Europe generally, and to about 20° in the north of Scandinavia. Maxima during day below 50° at most of our own stations, but above 55° in some German localities, above 60° in Austria-Hungary and Italy, and 70° or higher at some stations in Spain and Algeria. Rather sharp frost at night in Great Britain.

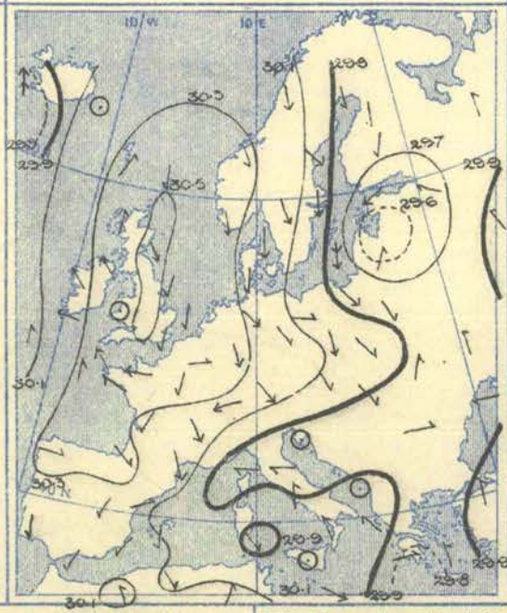
Wind in morning circulating cyclonically over our Islands and the North Sea region, and also in the north of our area. North-Easterly current fresh along our eastern coast, and that from the Westward fresh to high over the Channel and the north coast of France. Light breezes from various directions prevailing over the south and east of our area. Wind becoming anticyclonic over these Islands by evening or during night. Northerly current increasing to a gale in Gothland.

Barometer in morning above 30·3 ins. in an anticyclone beyond Scotland, and above 30·2 ins. in the north of Spain. Below 29·5 ins. in a complex depression over Holland and North Germany, and below 29·4 ins. in another minimum over the north of Finland. Northern high pressure system moving southwards towards England later and increasing in intensity, and a very considerable modification taking place in the general distribution of pressure over the north-western countries as a whole.

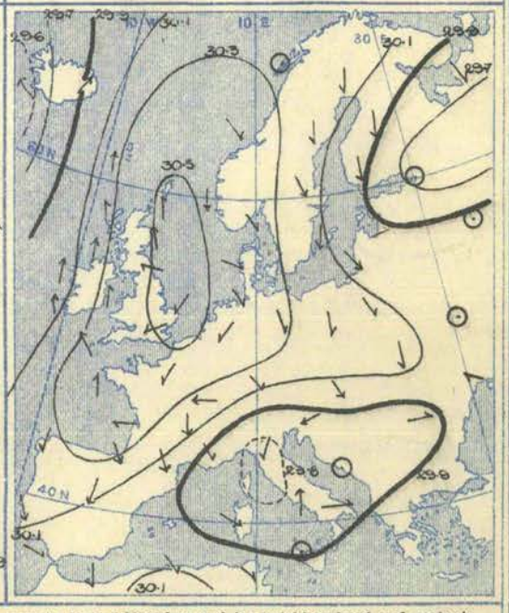
Friday, 2nd April, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater portion of our area, but overcast in some localities, and rain falling in the south and east of France and in Corsica, and snow at Memel and Helsingfors. Very heavy rain later in the south of Ireland, as much as 1·4 in. at Roche's Point, and 0·6 in. at Scilly. Some rain falling in Italy, and some snow in Finland, but conditions continuing dry over the Continent generally.

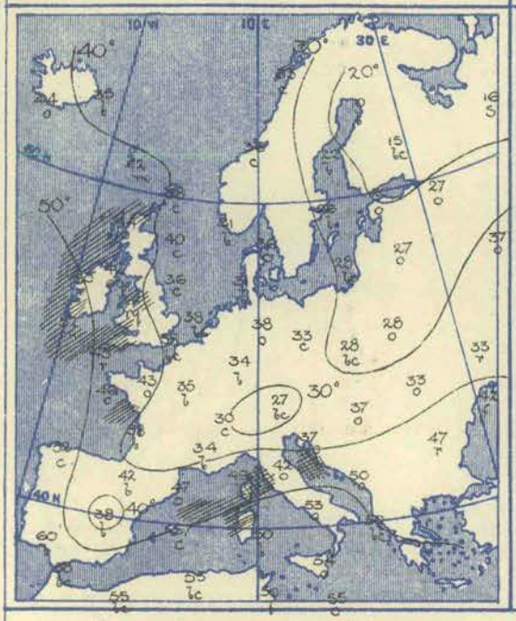
Temperature fallen in most regions. Readings in morning below 30° in the east of Scotland and over the major portion of Scandinavia and Finland, and as low as 16° at Haparanda. Very little above 32° in Germany and France, but increasing to above 50° in Italy and the Spanish Peninsula, and to 60° at a few places in the far south of our area. Maxima during day below 50° in nearly all parts of these Islands, Germany, the Low Countries, and in the north and east of France, but rising to 60° or higher in Italy, and to 70° in various parts of Algeria and the Spanish Peninsula. Frost at night over some localities in Great Britain.

Wind in morning anticyclonic over the United Kingdom and its neighbourhood, and cyclonic over the east and south of our area. Northerly current strong to a gale over Scandinavia and the Baltic, and South-Easterly current strong in the south west of these Islands. A gale from South-East prevailing at Reykjavik. Southerly and South-Easterly winds increasing still further in force on our western coasts, and blowing a gale at Roche's Point. Northerly current decreasing in Scandinavia, but a high wind from the North-Eastward setting in at Trieste.

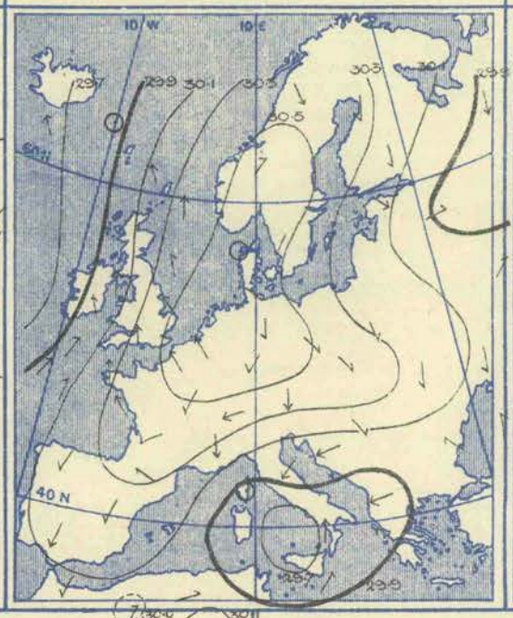
Barometer in morning ranging from above 30·5 ins. in the central part of an anticyclone covering the east of Scotland and extending to central England, to below 29·6 ins. in a depression over the Baltic Provinces of Russia. Relatively low over the north of Italy and in Sardinia. Anticyclone moving slowly eastwards during day and at the same time extending both to the northward and southward, and barometer falling rather decidedly over Iceland and the west of these Islands.

Saturday, 3rd April, 1909.

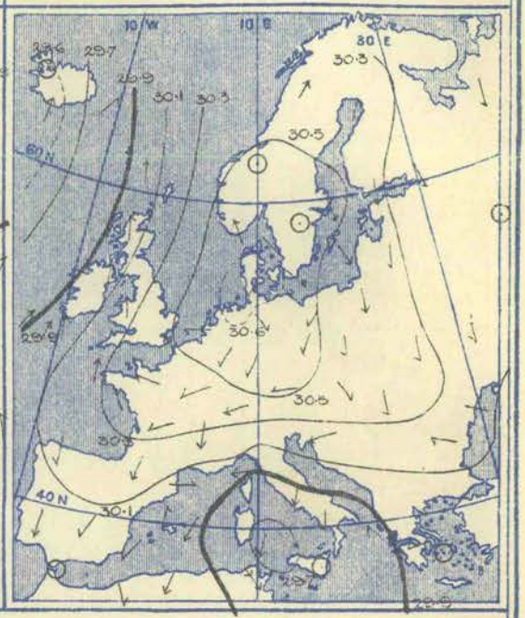
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in the Peninsula, France, central Europe, the south-east of England, and over Scandinavia, rainy in Ireland and on the coast of Wales, and rough, with rain in places, in Italy. Rain also at La Calle, Hermanstadt, and Kieff. About an inch of rain falling later at Birr Castle, and about 1·5 in. in the south of Ireland and at Donaghadee, more than 0·5 in. at Pembroke, Holyhead, and Wick, and 0·9 in. at Stornoway. Very heavy rain over the southern parts of Italy and at Malta.

Temperature fallen in most regions. Morning readings below 40° in most parts of Great Britain and France, below 32° at many stations in central Europe, and below 20° in the extreme north-east. Above 50° at most stations in the south of our area, and as high as 60° at Lisbon. Maxima during day not much above 40° on the east coast of England, and below 50° over these Islands generally, and also over the greater portion of central Europe and the north of Italy, but above 70° in the far south of our area.

Wind in morning showing an extensive anticyclonic movement over the North Sea and the surrounding regions, and a cyclonic circulation over Italy and the Mediterranean. A fresh to high Southerly or South-Easterly wind prevailing on all our western coasts, and a gale at Roche's Point. North-Easterly current strong to high over the Adriatic and the northern half of Italy. No change of a general character later in day; increasing to a gale at Stornoway, but falling to a fresh breeze at Roche's Point.

Barometer in morning ranging from above 30·5 ins. over the North Sea and a considerable portion of Germany and Scandinavia to below 29·9 in the north of Russia, and to less than 29·7 ins. in a depression having its centre between Sardinia and Italy, and also in the west of Iceland. Scarcely any change in the general distribution later in day. Pressure giving way somewhat in the north-west of our area, and also over France, but increasing over the Baltic and Denmark, as well as over the whole of Russia.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	March 29th, 9.55 a.m. to 11.20 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	84° 90% 180°, 7	82·5° 95% 180°, 16	79·5° 100% 190°, 17	77·5° 100% 190°, 20					1,000	Overcast, clouds at various heights above 800 m.
2	March 29th, 8.0 a.m. to 2.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	82° 90% 180°, 9	81° 90% 180°, 11	81° 91% 180°, 12	78° 90% 190°, 18	78° 90% 190°, 18	76° 72% 190°, 15		75° 72% 190°, 15	2,000	Mild, with rain at intervals. Fresh gusty breeze below. Clouds Ni. 9 at about 370 m.
3	March 30th, 2.15 p.m. to 4.52 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	78° 98% 280°, 6	78° 98% 280°, 7	77° 99% 280°, 9	75° 99% 280°, 13	74° 100% 280°, 16			73° 100% 280°, 20	1,760	Dull, overcast to misty, rain. Moderate breeze. Clouds Stratus 10 (on ground).
4	March 31st, 10.30 a.m. to 11.33 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	82·5° 85% 135°, 6	81·5° 85% 135°, 9	78° 95% 145°, 15	77° 95% 155°, 16				77° 85% 155°, 16	1,300	Clouds at 650 m., isothermal above 900 m. Light rain in afternoon.
5	March 31st, 2.2 p.m. to 3.2 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind .. .	81° 33% 160°, 5	79° 80% 158°, 8	78° 77% 158°, 9					77° 77% 150°, 9	600	Dull, overcast morning to rain in evening. Light to moderate breeze. Clouds Ni. 10 at about 760 m.
6	April 1st, 10.7 a.m. to 11.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	76·5° 85% 10°, 5	76° 85% 10°, 9	73° 95% 10°, 12	70·5° 90% ?				70·5° 90% ?	1,320	Ice on the wire and upper kite. Wind doubtful, as the kite could not be seen, and the ice spoilt the record of velocity. Clouds at 600 m.
7	April 1st, 10.40 a.m. to 11.25 a.m.	Aldershot.	Temperature Humidity .. Wind	78° 95% 0	76° 95% —°, 10	73° 95% —°, 12					73° 95% —°, 12	550	Wind fairly strong early, but dropped by 11.30 a.m.
8	April 1st, 11.20 a.m. to 1.4 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	78° 65% 33°, 9	76° 65% 45°, 11	75° 65% 45°, 12	71° 68% 45°, 13	70° 48% 56°, 14			69° 27% 67°, 15	1,700	Fair, overcast morning to sunny afternoon. Fresh to moderate breeze, gusty. Clouds Cu.-Ni. 6.
9	April 2nd, 4.0 p.m. to 5.0 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	79° 67% 146°, 5	78° 67% 146°, 6	77° 68% 146°, 7	90°, 17	67°, 19	67°, 19		74° 68% 146°, 9	750	Sunny to fair and high overcast, with gentle breeze. Clouds Ci.-St. Pilot balloon for wind above 750 m.
10	April 3rd, 8.40 a.m. to 10.35 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	75° 73% 170°, 7	74° 74% 170°, 9	74° 75% 170°, 10	72° 57% 175°, 14	72° 14% 180°, 14			71° 10% 180°, 15	1,800	Fair and high overcast, with a fresh gusty breeze dying off towards evening. Clouds A.-Cu. 10. Other conditions remained same all day.

APPARATUS USED IN THE KITE ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10
No. of Kites	1	2	2	1	1	2	—	2	1	2
Area of Surface (sq. metres) ..	4	12	14	4	5·8	11	—	12	5·8	12
Capacity of Balloon (cub. metres)	—	—	—	—	—	—	—	—	—	—
Length of Wire (metres) ..	1,520	3,600	3,100	1,800	600	1,800	—	2,000	600	2,100

63, Victoria Street, London, S.W. *April 7th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
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THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 14. FOURTEENTH WEEK, SUNDAY APRIL 4TH TO SATURDAY APRIL 10TH, 1909. *[Price 6d. Annual Subscription post paid £1 10s. 0d.*

I—.General Remarks.

Weather.—During the greater part of the week the sky was almost cloudless, but some rain fell in Ireland and the west and north of Scotland on Sunday, and on Saturday a considerable amount of cloud was experienced in Ireland and Scotland, with a little rain in places.

Temperature was above the average in all districts, the greatest divergence being 3°·6 in Scotland N., and the smallest 0°·8 in England E. The highest of the maxima were recorded generally on the 9th or 10th, and ranged from 74° in England S.W., 73° in the Midland Counties, and about 70° in several other districts to 63° in Scotland N. The maxima were generally low on the east coast of England, on some days below 50°. The lowest of the minima, which were mostly registered early in the week, varied from 18 in Scotland E. (at Balmoral on the 6th), 22° in England S.W. (at Langammarch Wells on the 10th), and 24° in the Midland Counties to 29° in Ireland, and to 39° in the English Channel. The range of temperature during the week was unusually large. At many inland stations it exceeded 40°, at Bawtry it amounted to 46°, Raunds and Marlborough 47°, and at Llangammarch Wells 48°. The lowest grass readings reported were 9° at Llangammarch Wells, 15° at Balmoral, 16° at Birmingham, and below 20° in some other localities.

Mean Temperature of the Sea.—At nearly all stations except those on the east and south-east coasts of England the water was rather warmer than during the corresponding week of last year, the actual figures ranging from nearly 50° at Seafield, and about 48° at Plymouth and Salcombe to below 44° on the north-east and north coasts of Great Britain, and to 40°·7 at Burnmouth.

Rainfall.—Over the Kingdom as a whole the week was without rain, and the few falls which occurred in the North and West were slight.

Bright Sunshine.—Over the Kingdom generally the week was among the brightest ever recorded, the percentage of the possible duration ranging from 89 in England E., 87 in England S.E., 82 in the English Channel, and above 70 in the other English districts to 51 and 48 respectively in Scotland W. and N. The highest percentage of the possible amount reported from individual stations was 93 at Lowestoft, Yarmouth, Felixstowe, Tunbridge Wells and Worthing.

Barometer and Wind.—At the commencement of the week an anticyclone lay to the eastward of the North Sea, and the main current of the wind over these Islands was between South and South-East. By the middle of the week the high pressure system completely covered the United Kingdom and the North Sea, while the wind had become Westerly in the north and Easterly or North-Easterly in the south, and was everywhere very light. From this time the anticyclone decreased slowly in intensity and moved gradually southwards while the Westerly wind extended to all the Northern districts. At the end of the period the decrease of pressure had become accelerated and the central area of the system covered Brittany and the adjacent parts of the ocean, while the Westerly or South-Westerly winds had extended over nearly the whole of the United Kingdom.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 108.	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ... ... Warmth ...	Very unusual	Very unusual	Very unusual	Unusual	Very unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual
Rainfall ...	Very light	Very light	Nought	Nought	Nought	Nought	Light	Nought	Nought	Light	Light	Nought
Sunshine ...	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant	Very abundant	Very abundant	Very abundant	Abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 5 weeks from Mar. 7th, 1909. Warmth ...	1 * 1	1 * 4	1 * 2	1 * 0	1 * 2	1 * 2	2 * 1	2 * 2	1 * 2	2 * 1	1 * 2	1 * 1
Rainfall ...	0 * 4	3 * 1	3 * 1	3 * 1	2 * 1	2 * 1	1 * 2	2 * 2	1 * 1	1 * 2	2 * 2	4 * 1
Sunshine ...	1 * 1	1 * 3	1 * 3	1 * 4	1 * 3	1 * 3	2 * 3	2 * 2	2 * 2	1 * 2	2 * 2	1 * 3

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks. Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks. Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks. Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks. Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FOURTEENTH WEEK—April 4th to 10th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees: Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	63	24	54·5	35·6	44·6	+ 3·6	45	+ 25	18	− 7	2	− 2	0·07	−0·71	44	+ 14	48	+15
Eastern																		
1. SCOTLAND, EAST	69	18	57·0	32·8	44·3	+ 2·9	55	+ 27	26	0	1	− 3	0·01	−0·43	55	+ 23	60	+25
2. ENGLAND, N.E.	70	25	57·8	33·7	45·2	+ 2·7	57	+ 32	23	+ 4	0	− 4	0·00	−0·38	66	+ 31	73	+34
3. ENGLAND, EAST	71	27	56·7	33·7	44·6	+ 0·8	52	+ 18	23	+ 3	0	− 3	0·00	−0·34	81	+ 45	89	+50
4. MIDLAND COUNTIES	73	24	62·2	31·9	46·3	+ 2·5	73	+ 37	28	+ 7	0	− 3	0·00	−0·41	71	+ 38	78	+42
5. ENGLAND, S.E.	72	25	58·4	35·7	46·5	+ 1·3	58	+ 21	18	+ 6	0	− 3	0·00	−0·32	78	+ 43	87	+48
Western																		
6. SCOTLAND, WEST	69	27	57·8	34·6	45·6	+ 2·8	56	+ 30	21	+ 2	1	− 2	0·06	−0·61	47	+ 12	51	+13
7. ENGLAND, N.W.	68	27	59·3	35·2	46·7	+ 3·0	61	+ 33	19	+ 3	0	− 4	0·00	−0·52	64	+ 35	71	+39
8. ENGLAND, S.W.	74	22	59·3	37·6	47·9	+ 2·6	60	+ 25	12	+ 2	0	− 3	0·00	−0·54	65	+ 29	72	+33
9. IRELAND, NORTH	68	29	56·9	37·0	46·1	+ 2·1	50	+ 20	14	− 1	1	− 3	0·11	−0·47	56	+ 25	62	+27
10. IRELAND, SOUTH	72	29	58·0	37·2	47·1	+ 1·5	56	+ 18	13	+ 3	2	− 1	0·14	−0·48	54	+ 18	59	+20
11. ENGLISH CHANNEL	72	39	58·4	43·1	50·4	+ 2·8	59	+ 17	0	− 2	0	− 3	0·00	−0·42	74	+ 32	82	+35

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 5 Weeks, March 7th to April 10th, 1909.

0. SCOTLAND, NORTH	63	20	*	*	*	*	61	− 6	153	+ 7	19	− 5	1·78	−3·03	114	− 5	27	− 1
Eastern																		
1. SCOTLAND, EAST	69	7	*	*	*	*	64	− 29	193	+ 35	21	+ 1	3·96	+1·44	105	− 29	25	− 7
2. ENGLAND, N.E.	70	21	*	*	*	*	103	0	143	+ 18	19	+ 1	2·97	+1·00	137	− 13	33	− 3
3. ENGLAND, EAST	71	21	*	*	*	*	112	− 21	120	− 13	19	+ 3	2·01	+0·27	157	+ 6	37	+ 1
4. MIDLAND COUNTIES	73	17	*	*	*	*	139	+ 1	144	+ 9	17	+ 1	1·88	−0·08	143	+ 8	34	+ 2
5. ENGLAND, S.E.	72	13	*	*	*	*	115	− 25	101	+ 5	20	+ 5	2·30	+0·37	156	+ 7	37	+ 2
Western																		
6. SCOTLAND, WEST	69	19	*	*	*	*	102	+ 7	129	+ 13	16	− 4	3·13	−0·71	118	− 20	28	− 5
7. ENGLAND, N.W.	68	19	*	*	*	*	121	+ 17	116	+ 13	17	− 2	2·50	−0·18	150	+ 21	36	+ 5
8. ENGLAND, SW	74	12	*	*	*	*	120	− 18	91	+ 11	23	+ 5	3·65	+0·70	148	− 3	35	− 1
9. IRELAND, NORTH	68	22	*	*	*	*	105	− 12	92	− 5	20	− 2	3·08	+0·06	124	− 6	30	− 1
10. IRELAND, SOUTH	72	23	*	*	*	*	148	− 3	77	+ 3	25	+ 6	5·17	+1·89	140	− 8	33	− 2
11. ENGLISH CHANNEL	72	30	*	*	*	*	171	+ 6	26	− 2	25	+ 6	3·98	+1·57	184	+ 3	44	+ 1

THE YEAR.—Aggregates, &c., for the Period of 14 Weeks, January 3rd to April 10th, 1909.

0. SCOTLAND, NORTH	63	13	*	*	*	*	105	− 22	462	− 14	64	− 6	10·70	−5·07	211	+ 4	23	0
Eastern																		
1. SCOTLAND, EAST	69	1	*	*	*	*	103	− 58	587	+ 52	52	− 3	8·81	+1·30	228	− 30	24	− 3
2. ENGLAND, N.E.	70	14	*	*	*	*	138	− 45	538	+112	45	− 6	5·84	+0·48	283	+ 7	29	+ 1
3. ENGLAND, EAST	71	12	*	*	*	*	147	− 76	525	+ 53	49	− 1	4·26	−0·85	328	+ 37	33	+ 4
4. MIDLAND COUNTIES	73	8	*	*	*	*	182	− 60	589	+118	42	− 7	4·81	−1·33	287	+ 32	29	+ 3
5. ENGLAND, S.E.	72	0	*	*	*	*	179	− 79	470	+115	45	− 2	5·25	−1·13	344	+ 62	35	+ 6
Western																		
6. SCOTLAND, WEST	69	11	*	*	*	*	156	− 28	404	+ 26	51	− 9	11·22	−1·47	232	− 12	24	− 1
7. ENGLAND, N.W.	68	10	*	*	*	*	179	− 19	440	+ 86	48	− 7	7·20	−1·15	311	+ 69	32	+ 7
8. ENGLAND, S.W.	74	7	*	*	*	*	204	− 85	385	+106	51	− 3	7·56	−2·39	337	+ 51	34	+ 5
9 IRELAND, NORTH	68	14	*	*	*	*	226	− 16	269	− 45	63	− 1	9·33	−0·22	233	− 15	24	− 2
10. IRELAND, SOUTH	72	15	*	*	*	*	316	− 21	254	+ 15	62	+ 5	10·02	−0·81	277	− 7	28	− 1
11. ENGLISH CHANNEL	72	25	*	*	*	*	346	− 38	151	+ 44	55	− 5	8·14	−0·18	399	+ 50	40	+ 5

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature (In Degrees Fahrenheit): Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week: Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.): Above 42°	Below 42°	Rainfall: No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine: Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Balta Sound* S	54	10th	37	6th	48·7	40·1	44·2	—	23	5	6	0·52	—	29·6	—	32	—	*Balta Sound.*
	a Sumburgh Head ..	53	10th	36	7th	47·3	39·1	43·0	+ 3·0	19	8	5	0·26	− 0·29	39·7	+ 9·4	43	+10	Deerness.
	a Stornoway	58	7th	31	7th	54·0	38·4	45·8	+ 4·2	42	10	2	0·03	− 0·74	45·6	+13·8	50	+15	Stornoway.
	a *Castlebay, Barra Isd.*	52	7, 8, 10th	37	10th	48·9	40·4	44·5	+ 0·1	24	4	1	0·08	—	37·2	—	40	—	*Castlebay.*
b, Mainland.	a Wick	58	8th, 10th	29	7th	53·1	35·4	43·8	+ 2·3	40	18	2	0·13	− 0·34	*	*	*	*	* *
	p Strathpeffer	61	7th	30	6th	56·4	36·2	45·8	+ 4·1	51	16	0	0·00	− 0·47	49·0	+20·9	53	+23	Strathpeffer.
	p Glencarron .. 𝔖	59	7th, 10th	29	6th, 7th	56·0	35·2	45·1	+ 4·6	50	19	1	0·03	− 1·40	*	*	*	*	* *
	p Fort Augustus 𝔖	63	8th, 9th	24	6th	58·8	32·1	44·8	+ 3·1	61	28	0	0·00	− 0·63	43·3	+20·3	47	+22	Fort Augustus.
	p Fort William 𝔖	59	8th, 10th	27	7th	55·7	32·8	43·7	+ 1·2	51	26	1	0·01	− 1·13	*	*	*	*	* *
1. SCOTLAND, E.	p Gordon Castle 𝔖	62	10th	29	6th	57·1	33·9	44·9	+ 2·5	54	23	1	0·07	− 0·38	57·9	—	63	—	*Gordon Castle.*
	a Nairn	63	7th	26	7th	57·1	32·6	44·3	+ 2·5	56	26	1	0·04	− 0·29	58·1	—	63	—	Nairn.
	a Aberdeen	64	8th, 10th	32	7th	54·6	35·6	44·6	+ 2·5	45	18	0	0·00	− 0·47	57·0	+24·7	62	+27	Aberdeen.
	a Balmoral .. 𝔖	61	9th	18	6th	55·0	26·6	40·1	+ 1·7	36	58	0	0·00	− 0·55	57·9	—	63	—	Crathes S.
	p Crieff .. .. 𝔖	69	8th	29	7th	59·4	34·8	46·5	+ 3·8	62	20	0	0·00	− 0·58	54·0	—	59	—	Balruddery
	a Leith	65	8th, 10th	31	6th	56·9	35·1	45·5	+ 2·2	53	19	0	0·00	− 0·30	42·6	+17·2	47	+19	Edinburgh.
	a West Linton.. S	65	10th	24	6th, 7th	57·2	29·5	42·7	+ 2·8	57	35	0	0·00	—	?59·6	—	?66	—	*West Linton.*
	p Marchmont .. 𝔖	67	10th	30	5th, 6th	58·4	34·3	45·8	+ 4·8	59	22	0	0·00	− 0·52	58·9	+29·5	65	+32	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	67	10th	27	7th	54·9	33·1	43·5	+ 1·6	48	25	0	0·00	− 0·47	64·7	—	71	—	Cockle Park.
	a Shields	67	10th	29	7th, 8th	55·3	32·7	43·5	+ 0·9	50	26	0	0·00	− 0·32	43·1	+19·7	47	+22	*Newcastle.*
	p Durham	69	10th	28	7th	59·7	31·4	44·9	+ 3·0	65	30	0	0·00	− 0·35	62·3	+33·6	69	+37	Durham.
	p Rounton .. 𝔐	68	10th	25	6th	60·4	32·0	45·5	+ 3·7	67	28	0	0·30	− 0·44	*	*	*	*	* *
	p Scarborough.. M	65	10th	35	4th	56·1	38·3	46·8	+ 3·8	49	10	0	0·00	− 0·40	63·5	—	70	—	Scarborough.
	p York	69	9th, 10th	30	6th, 7th	61·1	32·7	46·2	+ 2·5	68	26	0	0·00	− 0·39	54·9	+26·9	60	+30	York.
b, South.	a Spurn Head	58	9th	36	10th	50·1	38·1	43·8	+ 0·6	29	11	0	0·00	− 0·27	*	*	*	*	* *
	a Lincoln	69	10th	30	4th, 7th	61·6	32·7	46·5	+ 2·6	71	26	0	0·00	− 0·33	76·1	—	84	—	Skegness.
	a Fulbeck	70	9th	28	7th	61·4	32·7	46·4	+ 2·7	70	26	0	0·00	− 0·36	76·7	—	84	—	Rauceby.
															84·9	—	93	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer	64	9th, 10th	32	4th	54·1	36·4	44·8	+ 2·4	43	16	0	0·00	—	83·5	—	92	—	Cromer.
	p Hillington .. 𝔐	69	9th	28	8th	60·3	31·6	45·3	+ 1·6	67	29	0	0·00	− 0·39	79·2	+47·8	87	+53	Hillington.
	a Yarmouth ..	63	9th	36	10th	48·6	37·7	42·9	+ 0·3	24	12	0	0·00	− 0·34	84·4	—	93	—	Yarmouth.
	a Norwich	70	9th	29	4th	59·1	31·6	44·7	+ 1·6	63	29	0	0·00	—	*	*	*	*	* *
	p Geldeston	71	9th	30	8th, 10th	55·6	33·3	43·9	+ 0·5	50	24	0	0·00	− 0·36	79·1	+45·1	87	+50	Geldeston.
b, South.	p Cambridge	71	9th	27	7th	62·4	29·2	45·0	+ 0·8	75	36	0	0·00	− 0·32	79·9	+46·6	88	+51	Cambridge.
	a *Felixstowe*	57	9th	32	9th	50·1	37·0	43·2	− 0·4	29	14	0	0·00	—	83·5	—	93	—	*Felixstowe.*
	a Clacton-on-Sea ..	59	9th	35	10th	50·0	38·3	43·9	+ 0·6	29	10	0	0·00	—	82·0	—	91	—	Clacton.
	a Rothamsted ..	69	9th	29	8th, 9th	60·6	30·5	44·8	+ 1·4	68	32	0	0·00	− 0·38	81·0	+49·5	90	+55	Rothamsted.
	a *Shoeburyness* ..	60	9th	32	9th	51·7	34·6	42·7	− 2·3	36	21	0	0·00	− 0·26	76·3	—	85	—	*Southend.*
	p Tottenham	70	9th	32	4th	59·6	34·5	46·5	+ 2·0	63	21	0	0·00	—	77·8	—	86	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate	68	9th	28	7th	59·3	32·6	45·3	+ 3·1	63	26	0	0·00	− 0·46	65·8	—	72	—	Harrogate.
	a Bawtry	70	8th	24	5th	63·6	29·0	45·5	+ 1·8	79	36	0	0·00	− 0·33	65·5	+37·8	72	+42	Worksop.
	p *Buxton* .. M	65	8, 9, 10th	26	8th	58·2	29·8	43·3	+ 2·9	60	34	0	0·00	− 0·74	77·2	—	85	—	*Buxton.*
	a Nottingham ..	69	9th	28	7th	61·3	31·4	45·6	+ 2·0	70	30	0	0·00	− 0·34	73·8	—	81	—	Nottingham.
	p Birmingham, Edgbsn	70	10th	32	5th, 6th	61·7	35·8	48·1	+ 4·7	69	17	0	0·00	− 0·42	58·8	—	65	—	Birmingham.
	a Raunds .. 𝔐	72	9th	25	8th	62·8	28·9	45·0	+ 1·6	76	37	0	0·00		*	*	*	*	* *
	a Oxford	72	9th, 10th	29	5th	63·7	31·9	47·0	+ 2·5	77	28	0	0·00	− 0·32	81·0	+49·6	90	+55	Oxford.
b, West.	a Cheadle . 𝔐	66	9th, 10th	31	5th	60·0	35·3	47·1	+ 4·7	64	19	0	0·00	− 0·48	59·7	—	66	—	Sheffield.
	p Shrewsbury	72	10th	27	6th, 7th	63·0	29·5	45·5	+ 0·8	77	35	0	0·00	—	*	*	*	*	* *
	a Hereford .. 𝔐	73	10th	29	6th, 8th	63·6	31·2	46·6	+ 2·1	78	30	0	0·60	− 0·39	*	*	*	*	* *
	a Cirencester	70	9th, 10th	31	8, 9, 10th	62·0	32·8	46·7	+ 3·6	72	26	0	0·00	− 0·41	81·1	+48·9	90	+54	Cirencester.
	a Bath	72	10th	29	8th	63·3	32·6	47·2	+ 2·5	76	26	0	0·00	− 0·47	78·2	—	87	—	Bath.
															78·2	—	87	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	69	9th	32	4th	58·8	35·1	46·4	+ 1·5	60	19	0	0.00	− 0·36	75·2	+44·8	84	+50	Kew.
	a Marlborough ..	72	10th	25	7th, 8th	62·1	28·2	44·3	+ 1·4	74	39	0	0·00	− 0·48	76·3	+47·1	85	+52	Marlborough.
	a Margate	65	9th	36	4th, 5th	54·6	38·0	45·9	+ 1·6	44	11	0	0·00	− 0·31	76·3	+43·5	85	+48	Margate.
	a Wisley, Surrey ..	71	10th	29	7th, 9th	61·2	30·9	45·3	+ 0·1	70	31	0	0·00	—	77·8	—	86	—	Wisley.
	a Swarraton .. 𝔐	71	9th, 10th	27	5th	63·0	30·9	46·2	+ 2·5	76	31	0	0·00	− 0·45	84·0	—	93	—	Worthing.
	a Tunbridge Wells 𝔐	69	9th	29	4th	59·7	34·5	46·5	+ 2·4	63	21	0	0·00	− 0·43	84·1	+50·5	93	+56	Tunbridge Wells.
	a Dungeness	59	9th	37	4, 5, 9, 10	51·6	38·3	44·6	+ 0·5	34	10	0	0·00	− 0·35	71·9	—	80	—	Littlestone.
	p Hastings	63	9th	36	5th	55·8	40·8	47·9	+ 2·9	46	3	0	0·00	− 0·42	84·3	+47·6	94	+53	*Hastings.*
	p Southampton ..	72	10th	35	5th	61·0	36·8	48·3	+ 0·8	66	15	0	0·00	− 0·44	82·2	+47·5	91	+53	Southampton.
	a Ventnor	65	10th	40	4th, 5th	56·2	43·8	49·7	+ 3·6	54	0	0	0·00	− 0·40	80·3	+41·8	89	+47	Ventnor.
															75·1	+38·8	88	+43	Eastbourne.
LONDON	a *Westminster* ..	70	9th	34	9th	58·9	36·9	47·4	+ 2·5	59	14	0	0·00	− 0·35	68·7	+46·7	76	+52	*Westminster.*
	a *Greenwich*	69	9th	30	9th	59·8	33·3	45·9	+ 0·7	64	24	0	0·00	− 0·35	83·7	+54·5	93	+61	*Greenwich.*
6. — a, SCOTLAND. W. ..	p Laudale	63	10th	32	6, 8, 9th	57·5	35·4	45·9	+ 2·2	55	18	1	0·07	− 1·13	*	*	*	*	* *
	a Poltalloch .. 𝔖	63	9th, 10th	32	6, 7, 8th	57·0	35·0	45·5	+ 2·7	54	20	2	0·10	− 0·57	*	*	*	*	* *
	p Glasgow	66	8th	30	7th	57·3	35·9	46·1	+ 3·7	54	17	1	0·02	− 0·48	36·3	+11·1	40	+12	Glasgow.
	p Rothesay .. 𝔖	63	8th	32	9th	57·0	35·6	45·8	+ 2·4	53	18	2	0·10	− 0·59	*	*	*	*	* *
	a Kilmarnock	62	10th	29	6th	57·0	32·6	44·2	+ 1·5	55	26	1	0·23	—	43·9	—	48	—	*Kilmarnock.*
	a Colmonell .. 𝔖	67	10th	27	6th	58·5	32·0	44·6	+ 1·1	60	28	1	0·01	− 0·63	*	*	*	*	* *
	p Dumfries .. 𝔖	69	8th	31	5th, 7th	62·4	33·0	47·0	+ 4·0	73	25	0	0·00	− 0·56	*	*	*	*	* *
	p Cally, Gatehouse 𝔖	64	7, 8, 9th	29	6th, 8th	58·5	32·7	45·0	+ 2·2	60	26	0	0·00	− 0·76	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	60	8, 9, 10th	36	6th	55·4	38·9	46·8	+ 3·4	47	9	0	0·00	− 0·61	57·1	+20·1	63	+22	Douglas.
															68·9	—	76	—	Hoylake.
7. — a, ENGLAND, N.W...	p Aspatria	68	10th	29	6th	60·4	34·6	46·9	+ 4·6	65	21	0	0·00	− 0·55	61·6	—	68	—	Aspatria.
	p Newton Rigg ..	66	9th	27	6th	60·0	31·1	44·9	+ 3·2	66	31	0	0·00	− 0·53	63·1	+32·1	69	+35	Newton Rigg.
	p Stonyhurst	62	9th, 10th	32	7th	57·7	35·2	45·9	+ 3·4	56	19	0	0·00	− 0·67	63·8	+33·5	70	+37	Stonyhurst.
	p Blackpool .. M	62	10th	30	7th	58·0	33·1	45·0	+ 1·7	58	25	0	0·00	− 0·47	65·4	+35·3	72	+39	Blackpool.
	p M'nch'ster, Prestwich	68	10th	33	7th	61·5	34·5	47·4	+ 4·3	69	21	0	0·00	− 0·52	59·8	+34·8	66	+38	*Prestwich.*
	a Liverpool (Bidston)	64	10th	34	5th, 6th	59·1	38·3	48·2	+ 3·7	59	10	0	0·00	− 0·40	72·5	—	80	—	*Liverpool.*
	a Hawarden Bridge ..	67	10th	30	6th	61·3	34·0	47·0	+ 1·7	69	22	0	0·00	− 0·32	66·2	+33·8	73	+37	*Southport.*
															67·4	—	74	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	66	10th	33	6th	56·6	38·9	47·3	+ 2·5	50	9	0	0·00	− 0·44	61·4	+29·7	68	+33	Llandudno.
	a Holyhead	59	10th	36	6th	54·9	39·0	46·6	+ 2·0	45	8	0	0·00	− 0·52	66·7	—	73	—	Aberdovey.
	p Bettws-y-Coed ..	68	10th	29	6th	63·1	33·3	47·5	+ 2·8	75	24	0	0·00	—	62·3	—	69	—	Bettws-y-Coed.
															63·2	—	69	—	Aberystwyth.
8. — a, SOUTH WALES ..	a Llangammarch Wells	70	9th	22	10th	61·6	26·8	43·4	+ 0·8	74	43	0	0·00	—	64·7	—	72	—	Llangammarch Wells.
	a Pembroke	64	9th	35	6th	56·1	39·3	47·3	+ 2·7	48	8	0	0·00	− 0·48	57·4	+20·9	64	+23	Pembroke.
	a Cardiff	70	10th	33	5th	60·7	36·1	47·8	+ 2·1	65	17	0	0·00	− 0·62	74·2	—	82	—	*Cardiff.*
															60·5	+22·5	67	+25	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	71	9th, 10th	33	5th, 6th	63·5	36·4	49·3	+ 4·1	75	16	0	0·00	− 0·52	75·4	—	84	—	*Clifton.*
	a Shaftesbury .. 𝔐	71	10th	31	5th	60·6	38·3	48·9	+ 5·5	64	10	0	0·00	− 0·51	*	*	*	*	* *
	a Arlington	69	10th	32	6th	60·6	36·4	47·9	+ 4·2	65	16	0	0·00	− 0·73	69·0	+33·0	77	+37	Newquay.
	a Cullompton .. 𝔐	74	10th	32	5, 6, 8th	63·5	34·0	48·0	+ 3·1	76	22	0	0·00	− 0·52	70·8	+38·2	79	+43	Cullompton.
	a Portland Bill ..	60	10th	39	6th	51·4	42·7	46·8	+ 1·3	34	0	0	0·00	—	78·1	—	87	—	*Weymouth.*
	p Plymouth	72	9th	39	6th, 8th	60·9	41·2	50·6	+ 4·6	64	2	0	0·00	− 0·54	60·3	+24·9	67	+28	Plymouth.
	p Falmouth	60	10th	43	5th	53·9	45·2	49·3	+ 3·4	51	0	0	0·00	− 0·64	69·6	+32·6	77	+36	Falmouth.
															69·8	+32·9	78	+37	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head	62	10th	35	9th	53·3	38·4	45·5	+ 1·9	40	10	1	0·04	− 0·41	*	*	*	*	* *
	a Blacksod Point ..	61	9th	35	6th	55·4	39·6	47·1	+ 2·1	46	7	2	0.35	− 0·38	*	*	*	*	* *
	p Markree Castle ..	67	9th	29	7th	60·2	33·0	46·0	+ 2·3	66	25	2	0·07	− 0·57	54·4	+24·7	60	+27	Markree Castle.
b, East.	p Armagh	68	9th	32	6th, 7th	59·0	36·4	47·2	+ 3·6	60	16	1	0·02	− 0·48	58·2	+28·9	64	+32	Armagh.
	a Donaghadee	67	10th	32	8th	52·0	37·7	44·5	+ 0·6	36	12	1	0·08	− 0·38	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City.. ..	68	10th	34	8th	55·3	38·1	46·3	+ 0·5	46	11	1	0·03	− 0·40	55·8	+22·1	61	+24	Phœnix Park.
	a Kilkenny	69	10th	31	8th	59·7	35·0	46·8	+ 2·1	63	20	1	0·02	− 0·48	*	*	*	*	* *
	a Waterford	64	10th	32	9th	57·1	37·1	46·6	+ 1·8	53	14	0	0·00	− 0·63	*	*	*	*	* *
b, West.	a Birr Castle	69	10th	32	6th, 7th	60·0	36·0	47·4	+ 3·7	63	17	1	0·10	− 0·40	50·1	+18·9	55	+21	Birr Castle.
	a Foynes	68	10th	35	6th, 7th	58·5	38·5	48·0	− 2·3	57	10	5	0·06	− 0·52	*	*	*	*	* *
	a Cahir .. .. 𝔐	69	10th	29	6th, 8th	58·6	35·1	46·3	+ 1·9	59	19	3	0·10	—	*	*	*	*	* *
	a Killarney	72	9th	31	8th	62·1	36·6	48·7	+ 3·1	70	15	1	0·18	− 0·71	*	*	*	*	* *
	a Valencia	65	9th	35	6th, 7th	57·6	38·1	47·4	+ 1·0	54	11	3	0·58	− 0·37	54·9	+21·6	61	+24	Valencia.
	a Roche's Point ..	58	9th	36	6th	52·9	40·0	46·1	+ 0·1	37	6	5	0·23	− 0·42	54·5	—	60	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	60	10th	43	4, 5, 6th	54·1	44·3	49·0	+ 1·8	49	0	0	0·00	− 0·47	59·0	+21·6	66	+24	Scilly.
	a Jersey, St. Aubins ..	71	9th	39	5th	62.1	42·9	52·0	+ 5·2	70	0	0	0·00	− 0·50	82·6	+42·9	92	+48	St. Heliers.
	a Guernsey	72	10th	41	4, 5, 6th	59·1	42·0	50·1	+ 3·1	57	0	0	0·00	− 0·56	79·8	+39·8	89	+44	Guernsey.

Additional Sunshine Totals for the week:— [illegible] For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	42·1	—
	— —				
	— —				
1.	Aberdeen	—	—	—	40·1
	Crathes	6	22	40·4	39·3
	Balmoral	6	15	—	—
	West Linton	6	17	—	—
	Marchmont	4	24	41·4	—
2.	Cockle Park	3	25	40·5	40·7
	Durham	6	24	—	—
	York	—	—	42·5	41·9
	Hull	7	21	41·6	41·9
	Lincoln	—	—	42·1	41·4
	Rauceby	7	22	44·0	43·6
3.	Norwich	7	23	—	—
	Yarmouth	—	—	44·9	44·7
	Lowestoft	1	29	43·7	43·2
	Cambridge	6	25	44·1	44·2
	Clacton-on-Sea	3	26	43·7	44·6
	Southend	2	29	45·0	—
	Tottenham	5	28	—	43·8
4.	Harrogate	6	22	40·6	41·0
	Huddersfield	6	23	41·1	39·8
	Buxton	7	20	41·0	40·6
	Sheffield	6	23	41·3	40·8
	Nottingham	7	23	42·3	41·4
	Birmingham	7	16	41·7	42·9
	Oxford	7	22	—	—
	Hereford	7	20	—	—
	Cirencester	2	28	—	—
5.	Margate	1	29	43·4	43·1
	Greenwich	7	17	—	—
	Westminster	7	25	—	—
	Kew	7	20	42·4	44·0
	Canterbury	7	21	43·1	44·3
	Tunbridge Wells	7	21	45·4	—
	Wisley	7	20	42·6	43·6
	Worthing	1	30	44·8	44 3
	Portsmouth	5	26	—	—
6.	Glasgow	—	—	—	42·2
	Rothesay	4	24	—	—
	Colmonel	?	?	—	—
	Dumfries	1	30	—	—
	Douglas				
7.	Aspatria	6	20	—	—
	Newton Rigg	7	18	41·5	40·6
	Burnley	6	19	40·2	40·4
	Southport	6	22	41·8	42·2
	Manchester City				
	Bettws-y-Coed	3	27	41·9	43·1
8.	Llangammarch Wells	6	9	42·4	43·4
	Cardiff	4	26	43·5	43·1
	Clifton	3	29	—	—
	Bath	—	—	45·1	45·1
	Plymouth	4	25	46·3	—
9.	Armagh	4	25	43·7	43·3
	Markree	5	22	—	—
10.	Dublin, Trin. Coll.	?	?	43·9	45·1
11.	Guernsey, Brooklyn	2	28	47·6	46·5

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	44	43	43·3
	Kirkwall	45	41	43·5
	Wick	45	43	43·7
SCOTLAND, E.	Cromarty	50	40	43·6
	Pennan Bay	50	42	43·9
	Aberdeen, Cove Bay	45	42	43·4
ENGLAND, N.E.	Burnmouth, Berwick	42	39	40·7
ENGLAND, E.	Scarborough	46	41	43·0
	Shipwash Lightship	43	41	41·8
	Margate	46	42	44·2
ENGLAND, S.E.	Eastbourne‡	44	43	43·1
SCOTLAND, W.	Lamlash	45	42	43·9
	Ballantrae	45	43	44·0
ENGLAND, N.W.	Port Erin	45	43	44·4
ENGLAND, S.W.	Newquay	48	47	47·3
	Plymouth‡	50	47	48·3
	Salcombe	52	47	47·8
IRELAND, N.W.	Sheephaven	48	45	46·1
	Teelin	49	45	46·6
IRELAND, S.W.	Cleggan	50	43	45·2
	Seafield	55	46	49·7
IRELAND, E.				

‡ Only one observation each day.

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1909.	Station.	Wind Direction (in Degrees, 90° = E, 180° = S, 270° = W, 360° = N) and Velocity, Metres per Second. Ground Level.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres.	4,000 metres.	4,500 metres.	5,000 metres.	5,500 metres.	6,000 metres.	6,500 mtrs	7,000 mtrs.	7,500 mtrs.	8,000 mtrs.
1	April 5th, 3.32 p.m. to 3.45 p.m.	Howard Estate, Glossop, 335 metres.	100°,	100°,	110°, 13	125°, 11	145°, 9												
2	April 7th, 8.46 a.m. to 9.6 a.m.	Howard Estate, Glossop, 335 metres.	230°, 6	115°, 5	120°, 7·5	155°, 6	140°, 6	140°, 4·5	140°, 1·2	140°, 1									
3	April 7th, 10.20 a.m.	Pyrton Hill, Oxon, 150 metres.	65°, 2	90°, 4	100°, 5	105°, 5													
4	April 8th, 4.28 p.m. to 4.50 p.m.	Howard Estate, Glossop, 335 metres.	250°, 5	240°, 2	230°, 1·7	170°, 3	180°, 3	200°, 2	280°, 2.1	270°, 2.1									
5	April 8th, 10 a.m.	Pyrton Hill, Oxon, 150 metres.	57°, 2	80°, 3	90°, 5	100°, 3	120°, 2	135°, 6	145°, 7										
6	April 10th, 4.49 p.m. to 5.0 p.m.	Howard Estate, Glossop, 335 metres.	300°, 5·5	285°, 7	278°, 12·5	275°, 16	270°, 18												
7	April 10th, 6.18 p.m. to 6.32 p.m.	Howard Estate, Glossop, 335 metres.	290°, 2	278°, 6	278°, 9·5	260°, 12	280°, 9·5												

NOTES.—One theodolite; uniform ascensional velocity of 2·5 metres per second assumed in **1, 2, 4, 6** and **7**. No. **2**.—Very warm and sunny. Variable gentle breeze to calm. Humidity 56% at 282° (A.) temperature. No. **3**.—Lost after 13 minutes. No. **4**.—Fine, bright, warm. Gentle breeze to calm. Humidity 42% at 287° (A.) temperature. No. **5**.—Seen to burst after 2 minutes. Nos. **6** and **7**.—Very fine, bright and warm. Gentle breeze from N.W. by W. to calm. Humidity 38% at 289° (A.).

Registering Balloon Ascents.

Pressure in millimetres of mercury (mm.) and megadynes (mgd.); Temperature in Degrees Absolute; Wind Direction in Angular Measure, 90° = E, 180° = S, 270° = W, 360° = N; Wind Velocity in metres per second.

1

PYRTON HILL, OXON.
July 28th, **1908**, 8 p.m.

Height in Kilometres.	Pressure. Mm.	Pressure. Mgd.	Temperature. C°.	Temperature. A°.
Ground	754	1·01	19	[2] 92
0·5	724	·96	16·5	89·5
1·0	682	·91	14	87
1·5	644	·86	11	84
2·0	604	·81	7·5	80·5
2·5	567	·76	4·7	77·7
3·0	534	·71	5	78
3·5	502	·67	3·5	76·5
4·0	472	·63	0·5	73·5
4·5	443	·59	− 2·5	**70·5**
5·0	417	·56	− 5·2	**67·8**
5·5	392	·52	− 8	**65**
6·0	367	·49	− 12	**61**
7·0	323	·43	− 18	**55**
8·0	283	·38	− 23·5	**49·5**
9·0	247	·33	− 29·5	**43·5**
10·0	213	·28	− 38	**35**
11·0	184	·25	− 47	**26**

2

PYRTON HILL, OXON.
March 3rd, 1909, 11.45 a.m.

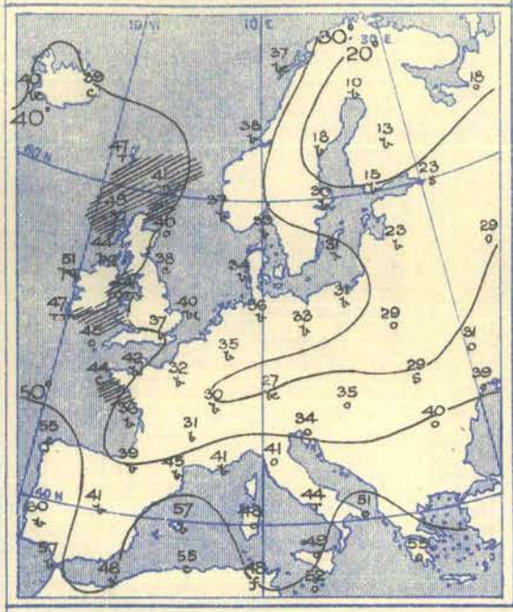
Height in Kilometres.	Pressure. Mm.	Pressure. Mgd.	Temperature. C°.	Temperature. A°
Ground	727	0·97	+ 1	[2] 74
0·5	695	·93	− 2	**71**
1·0	653	·87	− 6	**67**
1·5	612	·82	− 7	**66**
2·0	580	·77	− 9·5	**63·5**
2·5	541	·72	− 13	**60**
3·0	500	·67	− 17	**56**
3·5	472	·63	− 20·5	**53·5**
4·0	446	·60	− 23	**50**
5·0	385	·51	− 29·5	**43·5**
6·0	332	·44	− 36·5	**36·5**
7·0	289	·39	− 43	**30**
8·0	249	·33	− 48·5	**24·5**
9·0	217	·29	− 47	**26**
10·0	189	·25	− 46	**27**

No. **1**.—Balloon fell at Rogate, Petersfield, distant 67 kms., direction 175° (S 5° E). Mean temperature gradient: ground to 11 kms., 0·66° per 100 metres. Inversion 4°·7 at 2·50 kms., to 5°·8 at 2·76 kms. Maximum height 11,100 kms. Temperature, − 48°C = 25°A. This ascent was made in connection with the ascents organised by the International Commission for Scientific Aeronautics of which the results were published in a special supplement to the Weekly Weather Report for 1908.

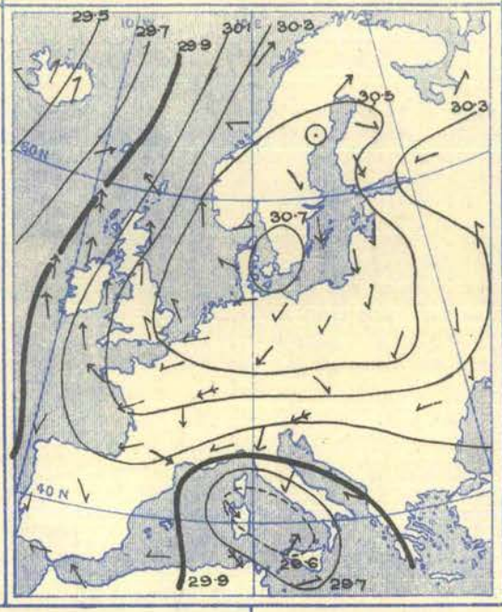
No. **2**.—Balloon fell at Oakly Brill, distant 19 kms., direction 155° (S.S.E.). Mean temperature gradient: ground to 8 kms., 0·62° per 100 metres. Sent up on March 3rd instead of on March 4th, account of low barometer and calm weather. Lost in fog immediately.

Sunday, 4th April, 1909.

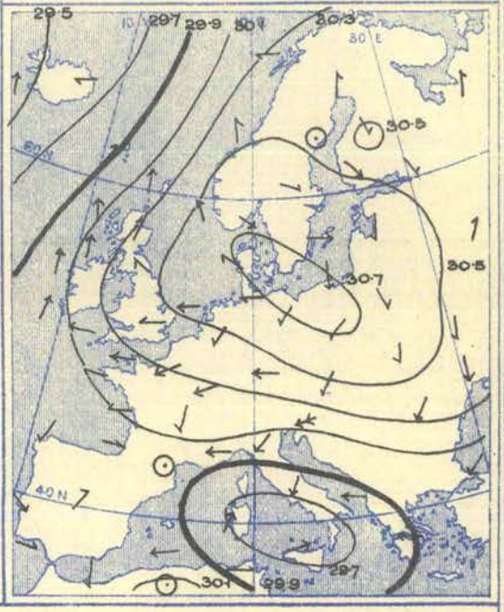
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over nearly the whole of central Europe, Scandinavia, England, France, and the Peninsula, dull in Russia, with snow in places, and rainy in Ireland, Scotland, Italy, and at La Calle. Continuing very bright in most regions, but rain falling in Ireland, Italy, and at some Algerian stations.

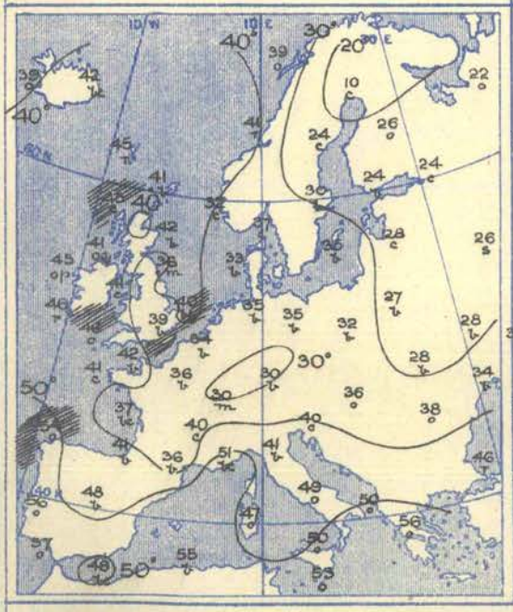
Temperature risen in Scotland and Norway, fallen generally elsewhere. Readings in morning about 60° in Portugal, but below 50° over most of the Mediterranean region, below 40° in some parts of England and the major portion of the Continent, and below 32° in the east and north-east. Maxima during day about 50° in various parts of England, but about 40° over a large portion of central Europe. Thermometer rising to 72° at Madrid and Lisbon, and to above 60° at some other places in the far south. Frost at night in central England.

Wind in morning showing a cyclonic circulation, fresh to a gale, over Italy and the regions immediately surrounding, a vast anticyclonic circulation over our area generally. Southerly current fresh to strong along our western coasts, and blowing a gale at Stornoway. No important change later.

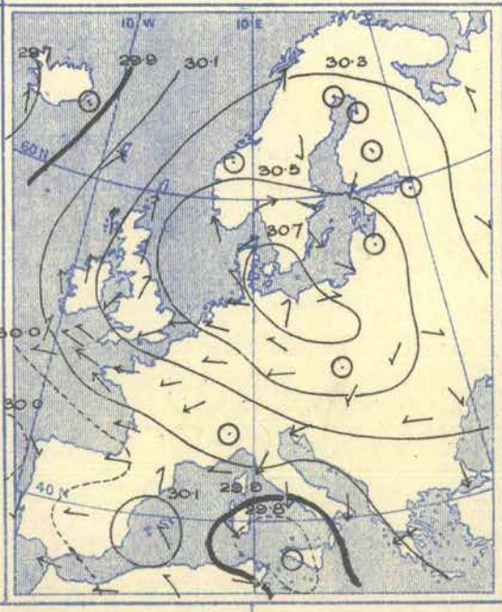
Barometer in morning above 30·7 ins. in a very large anticyclonic system having its maximum over Denmark, below 29·6 ins. in a depression over the Tyrrhenian Sea, and less than 29·5 ins. over the western half of Iceland. Very little modification taking place later in the general situation. Pressure increasing in Scotland, the north of Ireland, and Iceland, falling slightly in France and the south of this country.

Monday, 5th April, 1909.

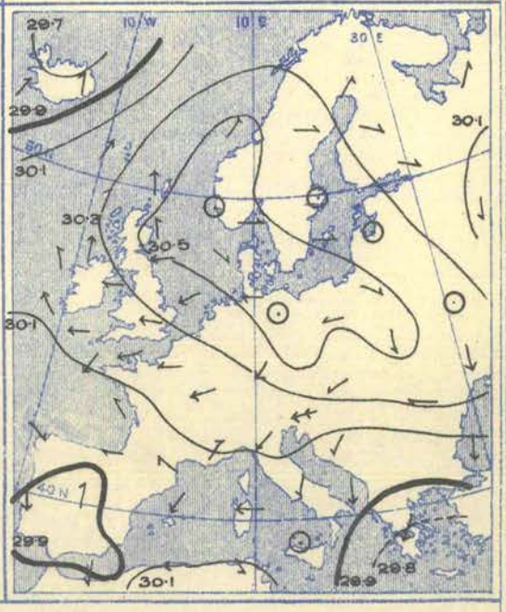
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast in Ireland, with rain in the west and rainy at Thorshavn and Christiansund, as well as at Constantinople, and snowy at Moscow; overcast in most parts of Italy and Greece. Fine and bright generally elsewhere. Very fine and dry in most regions during day, but heavy rain falling at Bodö and Athens.

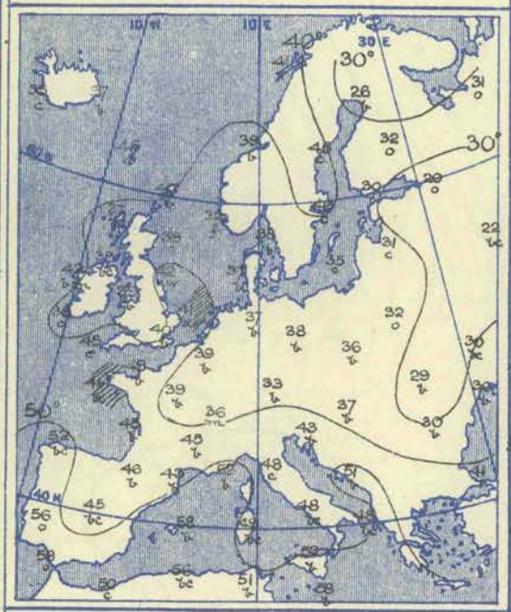
Temperature risen in Scandinavia and over the Baltic, changed little generally. Morning readings below 20° at some stations in the far north and north-east, below 40° over the Continent as a whole and in various parts of this country, and only 41° at Florence. Above 50° on most shores of the Mediterranean. Rising during day to 55° or rather higher in some parts of England and Wales, but only touching 43° at Yarmouth. Maxima below 50° over the greater portion of central Europe, but above 60° in the extreme south of our area, and as high as 78° at Madrid. Frost at night in various parts of the United Kingdom,

Wind in morning circulating anticyclonically over our area as a whole, but showing a cyclonic movement of moderate to fresh breezes over Italy and its vicinity. Easterly current fresh to strong in the south of England, and blowing a gale at Trieste. No change of importance later in day.

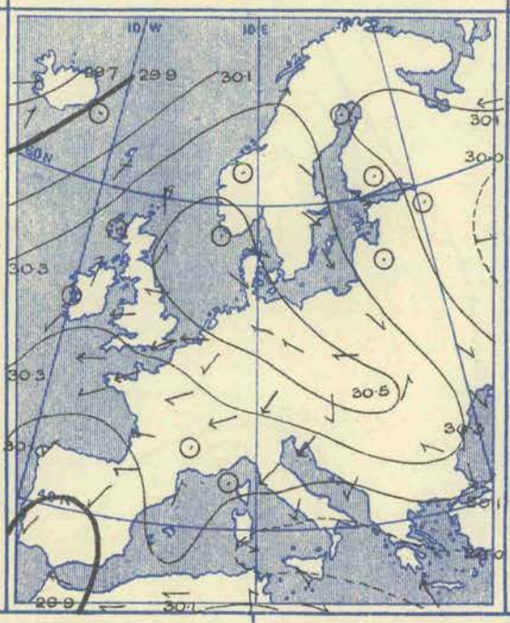
Barometer in morning ranging from above 30·7 ins. in the central part of a vast high pressure system over Denmark and North Germany to less than 29·8 ins. in a depression over Sicily and its neighbourhood, and to less than 29·7 ins. to the westward of Iceland. Very little alteration occurring later in the general distribution of pressure, but barometer falling slowly within the central area of the anticyclone and rising slowly in Ireland and Scotland.

Tuesday, 6th April, 1909.

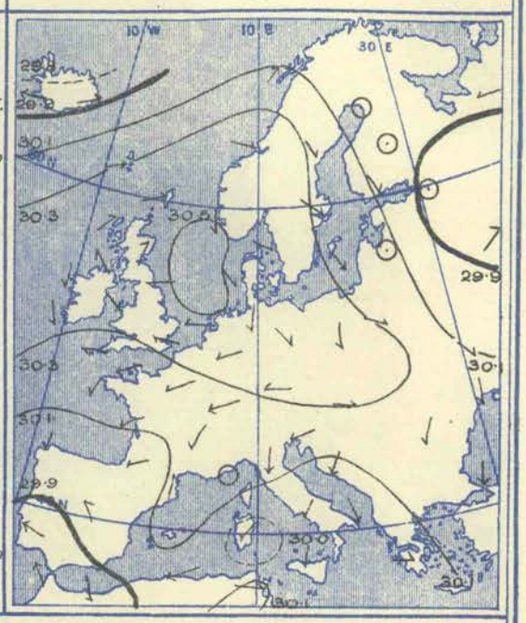
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine and bright over nearly the whole of our area, but overcast at some stations in the north-east, and rainy at Bodö as well as at Constantinople. Remaining very fine and dry throughout generally, but rain falling at Brindisi and San Fernando.

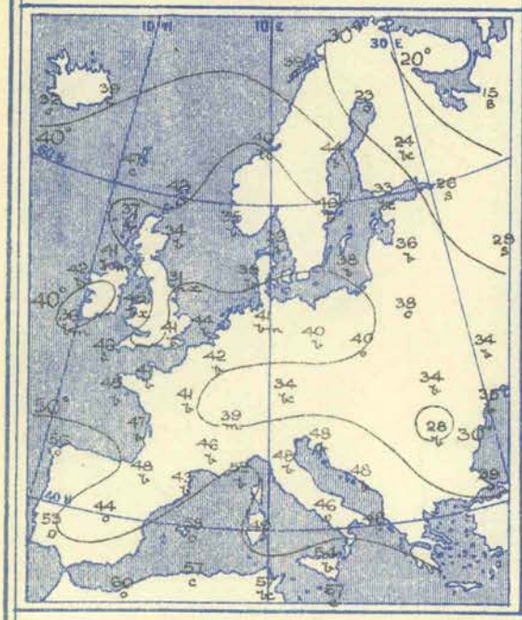
Temperature risen over a rather wide zone extending from France to the White Sea, fallen in the south-east of Europe, changed little elsewhere. Readings in morning nearly 60° at many places in the Mediterranean region, but below 40° over the greater portion of these Islands and the mainland of the Continent, and below 32° at Nairn and at some places in the central parts of Europe and Russia. Maxima during day 60° or above in various parts of England and Wales, but below 50° on the east coast. Between 60° and 70° very generally in southern Europe, and as high as 73° at Madrid. Thermometer remaining below 50° in several parts of Austria and Germany.

Wind in morning showing a very extensive anticyclonic movement occupying almost the whole of Europe, but moderate to fresh or strong cyclonic winds prevailing over the Mediterranean and a high wind from the North-Eastward at Athens. Very little change during day.

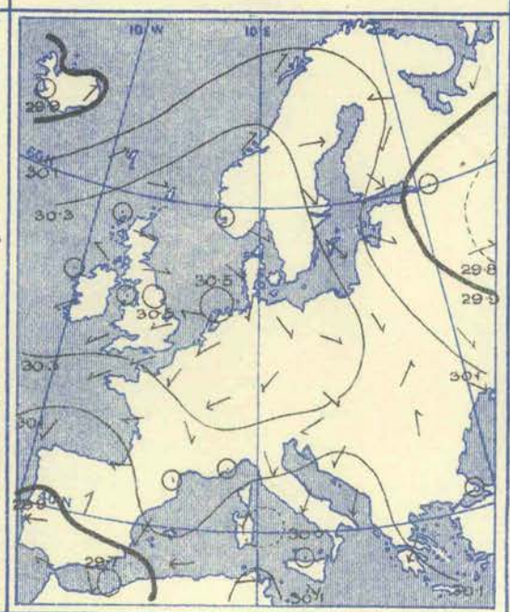
Barometer in morning above 30·5 ins. in a very large high pressure system having its central area over the North Sea, Germany, and Denmark. Below 29·7 ins. to the north-westward of Iceland, and relatively low in the Spanish Peninsula, the south-east of our area, and in Russia. Very little modification taking place during day in the general distribution of pressure, but a rise of the barometer occurring in the south-east of Europe, and anticyclone tending to decrease in intensity.

Wednesday, 7th April, 1909.

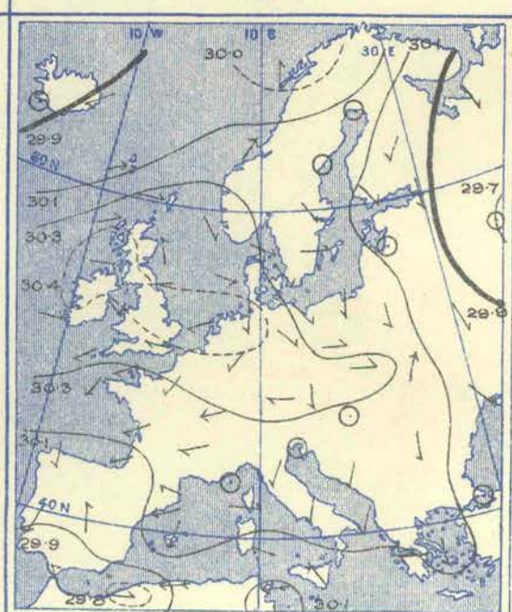
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very fine and bright in these Islands and the greater part of the Continent, but overcast, with rain or snow, in the northern half of Russia, and dull in many parts of Spain and Portugal, with rain at San Fernando. Rain also falling at Brindisi. Scarcely any rain falling during the ensuing twenty-four hours in any part of our area, and sky continuing cloudless in these Islands and their neighbourhood.

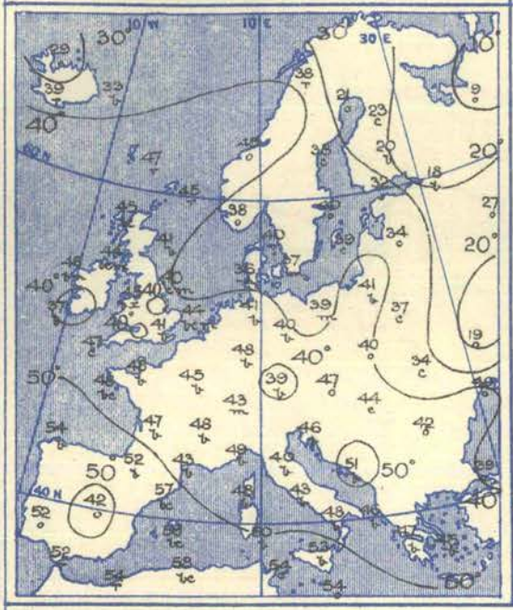
Temperature fallen in most northern and north-eastern regions, risen or changed little elsewhere. Readings in morning ranging from nearly 60° in the far south to below 40° generally, to below 32° at some places in the north and north-east of these Islands, and to below 20° at Archangel. Thermometer rising to 60° or above later in many parts of these Islands, and touching 67° at Bettws-y-Coed. Maxima above 60° in several parts of central and over the greater portion of southern Europe, and above 70° in a few localities, but only 55° at San Fernando and 59° at Athens. Slight frost at night in central England and in Scotland.

Wind in morning anticyclonic except over Russia, the Mediterranean region, and Iceland, and very light in force. Fresh to high from East or North-East in Algeria and the south-east of Spain, and strong to a gale at Alicante. No great change later in day; a gale from East setting in at Algiers.

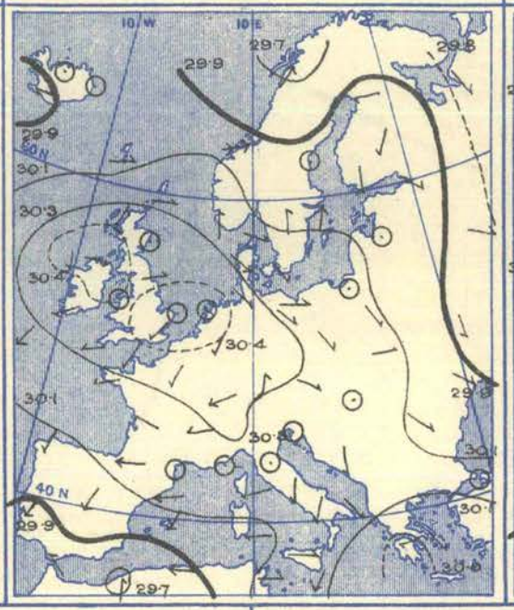
Barometer in morning above 30·4 ins. over these Islands, the North Sea, and the adjacent portion of the Continent. Below 29·8 ins. in a depression over Russia, and also in another system centred over the west of Algeria. No change occurring in the general situation during day, but anticyclonic system decreasing slowly in intensity.

Thursday, 8th April, 1909.

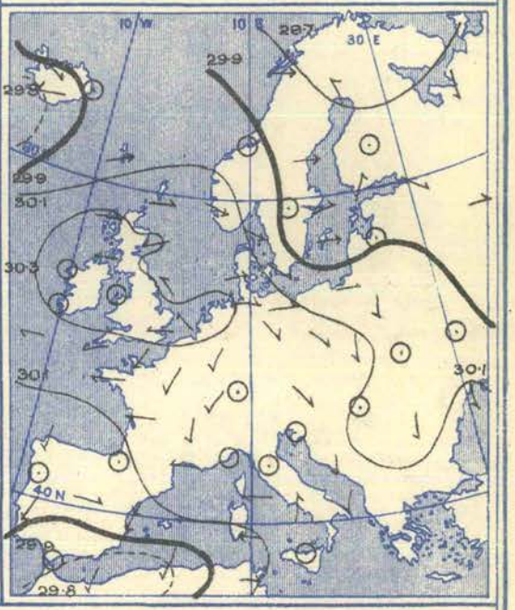
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright over these Islands and the greater portion of the Continent, but overcast in the far north, east, and south-west of our area, with rain at Thorshavn, Sumburgh Head, San Fernando, and Oran. Rather heavy rain later in Norway and snow at Haparanda, but weather continuing very fine generally; cloudless at nearly all our own stations.

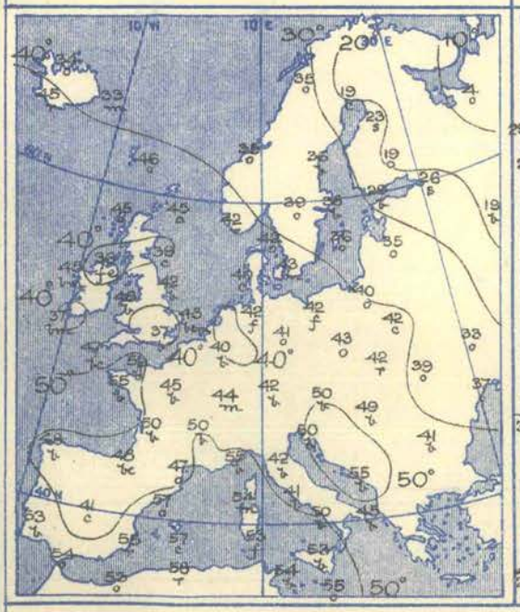
Temperature risen in Ireland and Scotland, and also at most places in England, France, and Germany. Readings in morning a little above 40° in most parts of this country and over the major portion of the Continent, but below 20° in the north-east of our area. Above 50° on most shores of the Mediterranean, and nearly 60° in the far south. Maxima during day above 65° at a few places in Great Britain, and 60° or rather higher in various districts in Central Europe and Italy. Above 70° in some French localities as well as at Bilbao and Tunis. Slight frosts at night in some parts of England away from the coast.

Wind in morning still anticyclonic over the United Kingdom and the greater part of the Continent. A South-Westerly current, strong to a gale, prevailing on the west coast of Norway, and light to strong breezes between North and East over the Mediterranean region No general change later in day. A Northerly gale at Alicante by evening.

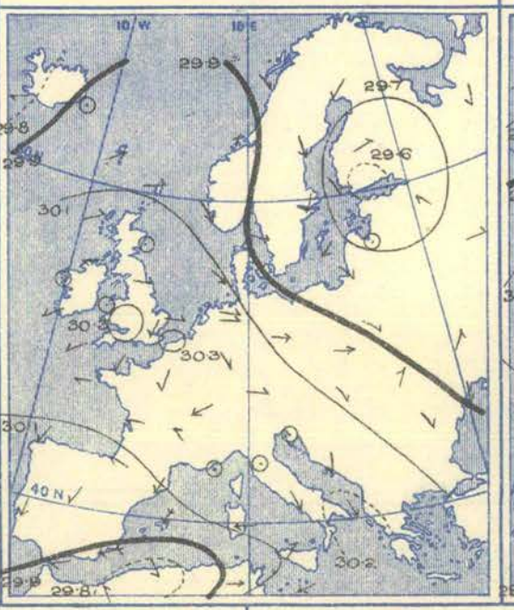
Barometer in morning 30·3 ins. to above 30·4 ins. over these Islands and the nearer regions of the Continent and relatively low in the northern and also the southern limits of our area but no depression of importance shown, and gradient nowhere steep. No change taking place in the general distribution of pressure during the ensuing twenty-four hours, but anticyclone continuing to decrease slowly in intensity.

Friday, 9th April, 1909.

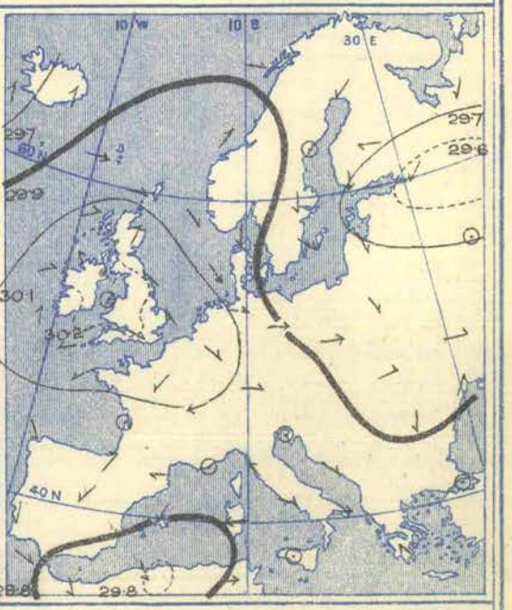
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very fine and bright over these Islands, France, the Low Countries, and most of Germany and Italy. Cloudy or overcast in nearly all other regions, with rain at Skudesnaes, San Fernando, and Algiers, and snow at St. Petersburg and Uleaborg. Some rain later in Poland and at a few German stations, slight rain or snow in various parts of northern Europe, and rather heavy rain in the south-east of Spain. Remaining extremely fine in these Islands.

Temperature risen somewhat in England and the nearer regions of the Continent. Morning readings as low as 4° at Archangel, and below 32° over the north-east and east of our area as a whole. About 40° in these Islands and Germany, but above 50° in the far south of our area, and nearly 60° in places. Maxima during day 70° or slightly above in some parts of England and over a large portion of France, but below 60° in some localities in central Europe and Italy, and also at Palma. Slight frost at night in various parts of Great Britain.

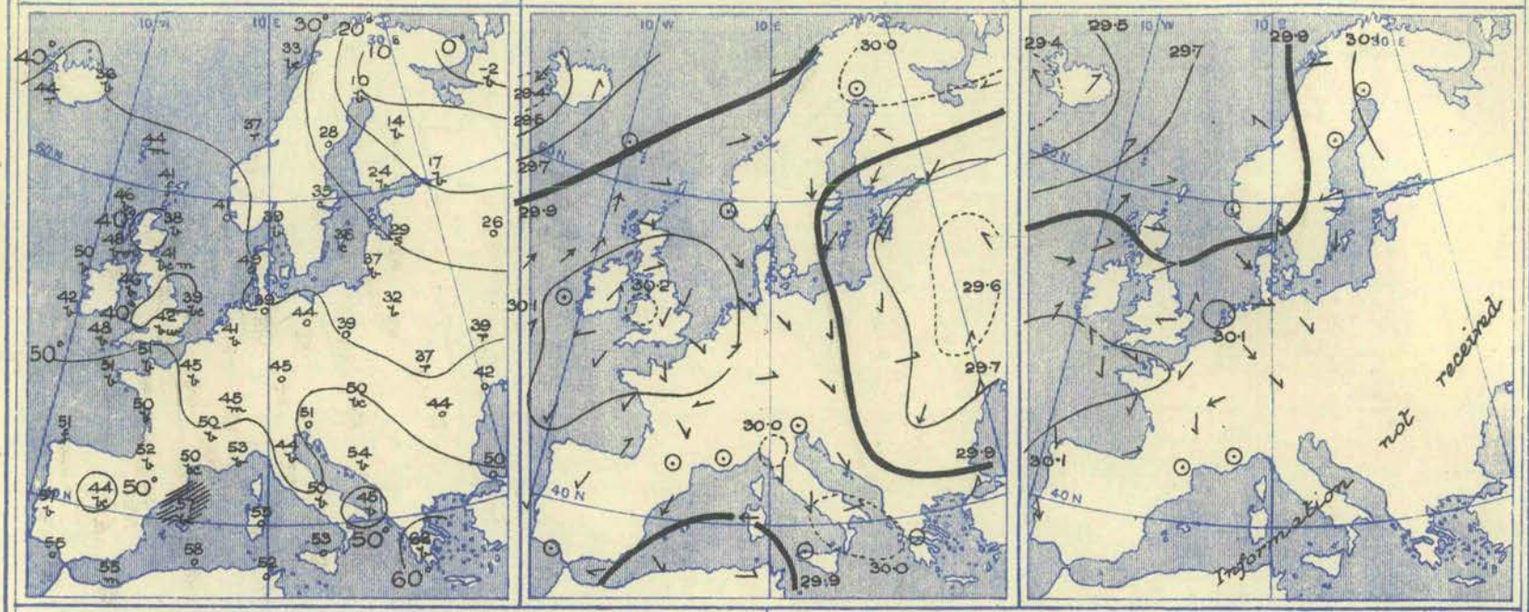
Wind in morning showing cyclonic circulations both in the north-east of Europe and over the Mediterranean, and an anticyclonic movement over these Islands and their neighbourhood. Not much force as a whole, but North-Easterly current blowing a gale at Alicante and Palma. No change of importance during day; gale continuing at Alicante.

Barometer in morning ranging from above 30·3 ins. over these Islands and a considerable portion of France and Germany to below 29·8 ins. in a depression over Algeria, and also in a system off the west of Iceland, and to less than 29·6 ins. in a well-defined disturbance over Finland. No great modification occurring in the general distribution during day, but anticyclonic system continuing to decrease in intensity.

Saturday, 10th April, 1909.

Temperature and Weather. — 7 a.m.

Barometer and Wind. — 7 a.m. — 6 p.m.



Weather in morning still fine and bright over the United Kingdom and the nearer regions of the Continent, as well as in several other localities, but rainy at Christiansund, Kieff, at some Polish stations, and at Oran, and snowy at Riga. Some rain later in Norway and some parts of Scotland and Ireland, but continuing very bright over England and France.

Temperature changed rather irregularly, but risen in most places. Readings in morning below 40° in several parts of Great Britain, and below 32° in the north-east of our area, and below zero at Archangel. Above 55° at many stations in the south of our area, and as high as 62° at Patras. Maxima during day about 70° in several parts of central and southern England, above 70° in many French localities, and 81° at Rochefort. Thermometer only rising to 48° at Yarmouth, 46° at the Helder, and 50° at Berlin.

Wind in morning light and anticyclonic over these Islands and the adjacent countries of the Continent, mainly cyclonic elsewhere. Fresh or strong in force on some shores of the Mediterranean, but light or moderate generally. Westerly to South-Westerly current becoming more pronounced over this country during day.

Barometer in morning above 30·1 ins. in a high pressure system of decreasing intensity lying over this country and its neighbourhood. Below 29·6 ins. in a depression over Russia, and less than 29·4 ins. in a disturbance off the south-west of Iceland. Relatively low over the Mediterranean. Pressure continuing to decrease over these Islands during day and night, change becoming rather brisk in the north and north-east, and also in the south of Norway. Barometer rising slowly in the north of Scandinavia.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	April 5th, 10.5 a.m. to 10.45 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	82° 70% 90°, 5	80·5° 70% 90°, 8	78·5° 80% 100°, 9	74·5° 40% 105°, 14				1,000		Clear sky. Very irregular wind.
2	April 5th, 11.2 a.m. to 11.30 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	80° 60% 135°, 8	79° 60% 138°, 10	78° 60% 140°, 11					75° 35% 145°, 20	950	Weather very fine and sunny. Clouds Cirr. 2. Fresh gusty ground breeze. Temp. inversion at 750 m. Instrument damaged on landing.
3	April 6th, 1.6 p.m. to 2.44 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	84° 53% 124°, 6	83° 50% 120°, 7	82° 50% 118°, 8	78° 55% 105°, 11				77° 55% 90°, 11	1,150	Very fine and sunny, warm. Gentle breeze dying off towards evening. No clouds.
4	April 9th, 7.24 a.m. to 7.55 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	81° 47% —	81° 46% —	80° 46% —	77° 43% 260°, —				77° 43% 260°, —	1,000	Fine, bright, warm. Calm. No clouds. Observations by captive balloon.

APPARATUS USED IN THE KITE ASCENTS.

No. of Ascent.	1	2	3	4
No. of Kites	1	2	2	—
Area of Surface (sq. metres) ..	7	8·4	13·5	—
Capacity of Balloon (cub. metres)	—	—	—	2·9
Length of Wire (metres) ..	1,300	?	1,300	900

63, Victoria Street, London, S.W. *April 14th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 15. FIFTEENTH WEEK, SUNDAY APRIL 11TH TO SATURDAY APRIL 17TH, 1909.

[Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—The general condition was changeable and showery, but over England and Ireland the rainfall was interspersed with considerable intervals of fair weather. Thunder and lightning, accompanied by hail in some places, occurred over the east of England on Monday, and again on the 14th or 15th in several localities in the east and north-east of Britain. Aurora was observed at Gordon Castle on Friday evening.

Temperature was above the average, the excess amounting to between 4° and 5° in the east and north-east of England. The highest of the maxima were recorded on the 11th in most places, but later in several north-western localities. They ranged from 71° in England E to 58° in Scotland W. and to 56° in Scotland N. The lowest of the minima, which were, with some exceptions, registered on the 15th, varied from 28° in Scotland E. and between 30° and 32° in most other districts, to 37° in the English Channel. The lowest grass readings reported were 16° at Llangammarch Wells, 18 at° Newton Rigg, 23° at Kew and Crathes, and 24° at West Linton, Birmingham, Hereford, Greenwich, and Burnley.

Mean Temperature of the Sea.—On most parts of the coast the water was warmer than during the corresponding week of last year, the greatest difference being 3°·2 at Seafield. The mean values for the week ranged from 51°·4 at Seafield and above 49° on the south-west coasts generally to about 44° at the Shipwash Lightship and Lerwick, and to 41°·3 at Burnmouth.

Rainfall was above the average in all the more western and northern districts, but below it elsewhere. In Scotland, the north of England, and in Ireland, the excess was large.

Bright Sunshine exceeded the average in Ireland and the greater part of England, but was deficient in Scotland, England S.W., and the English Channel. The percentage of the possible duration ranged from 50 in Ireland S., 46 in England N.E., and 45 in Ireland N. to 31 in England S.W., and 30 and 29 respectively in Scotland N. and E.

Barometer and Wind.—During the whole of the period a large low pressure system lay over the northern part of the Atlantic, and the barometer being highest over the Peninsula, France, or central Europe, the wind over these Islands was generally between South-West and West. Some secondary disturbances that travelled directly across this country or in its immediate neighbourhood caused the wind to increase in force at times, but except on Friday morning, when a high South wind prevailed on the coast of Wales, the greatest force was a strong breeze.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 108.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Heavy	Very heavy	Heavy	Moderate	Moderate	Moderate	Heavy	Heavy	Moderate	Heavy	Heavy	Moderate
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Abundant	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 6 weeks from Mar. 7th, 1909.	Warmth ...	1 * 1	2 * 4	2 * 2	2 * 0	2 * 2	2 * 2	3 * 1	3 * 2	2 * 2	3 * 1	2 * 2	2 * 1
	Rainfall ...	1 * 4	4 * 1	4 * 1	3 * 1	2 * 1	2 * 1	2 * 2	3 * 2	1 * 1	2 * 2	3 * 2	4 * 1
	Sunshine ...	1 * 1	1 * 3	1 * 3	1 * 4	1 * 3	1 * 3	2 * 3	2 * 2	2 * 2	2 * 2	3 * 2	1 * 4

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

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UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIFTEENTH WEEK—April 11th to 17th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	56	32	49·4	37·7	43·3	+ 1·4	27	+ 4	12	− 10	6	+ 1	1·18	+0·48	29	− 3	30	− 3
Eastern																		
1. SCOTLAND, EAST	62	28	51·3	35·1	42·8	+ 0·5	35	+ 5	19	− 4	6	+ 2	0·95	+0·52	28	− 5	29	− 5
2. ENGLAND, N.E.	67	33	56·8	39·6	47·8	+ 4·4	51	+ 24	7	− 9	5	+ 2	0·53	+0·18	43	+ 8	46	+ 9
3. ENGLAND, EAST	71	30	60·2	39·7	49·5	+ 4·9	62	+ 25	6	− 9	4	0	0·24	−0·11	38	+ 2	40	+ 2
4. MIDLAND COUNTIES	69	31	58·2	39·6	48·5	+ 3·9	56	+ 17	7	− 10	4	+ 4	0·37	−0·03	38	+ 5	40	+ 5
5. ENGLAND, S.E.	69	30	57·5	41·3	49·0	+ 3·0	52	+ 12	2	− 8	4	+ 1	0·20	−0·13	40	+ 5	43	+ 5
Western																		
6. SCOTLAND, WEST	58	30	52·6	39·1	45·5	+ 1·8	37	+ 7	8	− 8	6	+ 2	1·45	+0·83	33	− 3	35	− 3
7. ENGLAND, N.W.	62	31	53·5	41·1	47·0	+ 2·4	39	+ 7	3	− 9	6	+ 3	1·15	+0·68	36	+ 3	38	+ 3
8. ENGLAND, S.W.	69	31	55·2	42·3	48·4	+ 2·4	45	+ 7	0	− 8	5	+ 1	0·57	+0·07	29	− 8	31	− 9
9. IRELAND, NORTH	59	31	54·1	40·7	47·1	+ 2·2	41	+ 7	4	− 7	6	+ 2	1·11	+0·58	43	+ 9	45	+10
10. IRELAND, SOUTH	61	32	56·3	43·3	49·5	+ 3·2	53	+ 12	0	− 8	6	+ 2	1·24	+0·67	47	+ 10	50	+10
11. ENGLISH CHANNEL	62	37	57·2	46·0	51·4	+ 3·2	66	+ 22	0	− 1	3	− 1	0·18	−0·24	36	− 8	38	− 8

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 6 Weeks, March 7th to April 17th, 1909.

0. SCOTLAND, NORTH	63	20	*	*	*	*	88	− 2	165	− 3	25	− 4	2·96	−2·55	143	− 8	28	− 2
Eastern																		
1. SCOTLAND, EAST	69	7	*	*	*	*	99	− 24	212	+ 31	27	+ 3	4·91	+1·96	133	− 34	26	− 7
2. ENGLAND, N.E...	70	21	*	*	*	*	154	+ 24	150	+ 9	24	+ 3	3·50	+1·18	180	− 5	35	− 1
3. ENGLAND, EAST	71	21	*	*	*	*	174	+ 4	126	− 22	23	+ 3	2·25	+0·16	195	+ 8	38	+ 2
4. MIDLAND COUNTIES.. ..	73	17	*	*	*	*	195	+ 18	151	− 1	21	+ 2	2·25	−0·11	181	+ 13	35	+ 3
5. ENGLAND, S.E.	72	13	*	*	*	*	167	− 13	103	− 3	24	+ 6	2·50	+0·24	196	+ 11	38	+ 2
Western																		
6. SCOTLAND, WEST	69	19	*	*	*	*	139	+ 14	137	+ 5	22	− 2	4·58	+0·12	151	− 23	29	− 4
7. ENGLAND, N.W...	68	19	*	*	*	*	160	+ 24	119	+ 4	23	+ 1	3·65	+0·50	186	+ 24	36	+ 5
8. ENGLAND, SW	74	12	*	*	*	*	165	− 11	91	+ 3	28	+ 6	4·22	+0·77	177	− 11	35	− 2
9. IRELAND, NORTH	68	22	*	*	*	*	146	− 5	96	− 12	26	0	4·19	+0·64	167	+ 4	32	+ 1
10. IRELAND, SOUTH	72	23	*	*	*	*	201	+ 9	77	− 5	31	+ 8	6·41	+2·56	187	+ 2	36	0
11. ENGLISH CHANNEL	72	30	*	*	*	*	237	+ 28	26	− 3	28	+ 5	4·16	+1·33	220	− 4	43	− 1

THE YEAR.—Aggregates, &c., for the Period of 15 Weeks, January 3rd to April 17th, 1909.

0. SCOTLAND, NORTH	63	13	*	*	*	*	132	− 18	474	− 24	70	− 5	11·88	−4·59	240	+ 1	23	0
Eastern																		
1. SCOTLAND, EAST	69	1	*	*	*	*	138	− 53	606	+ 48	58	− 1	9·76	+1·82	256	− 35	25	− 3
2. ENGLAND, N.E.	70	14	*	*	*	*	189	− 21	545	+103	50	− 4	6·37	+0·66	326	+ 15	31	+ 1
3. ENGLAND, EAST	71	12	*	*	*	*	209	− 51	531	+ 44	53	− 1	4·50	−0·96	366	+ 39	34	+ 4
4. MIDLAND COUNTIES.. ..	73	8	*	*	*	*	238	− 43	596	+108	46	− 6	5·18	−1·36	325	+ 37	30	+ 4
5. ENGLAND, S.E...	72	0	*	*	*	*	231	− 67	472	+107	49	− 1	5·45	−1·26	384	+ 66	36	+ 6
Western																		
6. SCOTLAND, WEST	69	11	*	*	*	*	193	− 21	412	+ 18	57	− 7	12·67	−0·64	265	− 15	25	− 1
7. ENGLAND, N.W.	68	10	*	*	*	*	218	− 12	443	+ 77	54	− 4	8·35	−0·47	347	+ 72	33	+ 7
8. ENGLAND, S.W.	74	7	*	*	*	*	249	− 78	385	+ 98	56	− 2	8·13	−2·32	366	+ 42	34	+ 4
9 IRELAND, NORTH	68	14	*	*	*	*	267	− 9	273	− 52	69	+ 1	10·44	+0·36	276	− 5	26	− 1
10. IRELAND, SOUTH	72	15	*	*	*	*	369	− 9	254	+ 7	68	+ 7	11·26	−0·14	324	+ 3	30	0
11. ENGLISH CHANNEL	72	25	*	*	*	*	412	− 16	151	+ 43	58	− 6	8·32	−0·42	435	+ 43	40	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked ℜ is supplied by the Royal Meteorological Society, and that for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked M or $ are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				NAMES OF STATIONS.
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*51*	*12th*	*33*	*14, 15, 16th*	*45·7*	*36·4*	*40·8*	—	*10*	*20*	7	*0·51*	—	*21·9*	—	*23*	—	*Balta Sound.*
	a Sumburgh Head ..	48	12th, 16th	32	16th	45·7	36·6	40·9	+ 0·1	10	20	5	0·28	- 0·22	38·9	+ 5·9	40	+ 6	Deerness.
	a Stornoway	54	15th	35	15th	49·1	39·1	43·9	+ 1·4	25	8	7	1·60	+ 0·90	31·4	- 3·6	33	- 4	Stornoway.
	a Castlebay, Barra Isd.	*50*	*11th, 15th*	*38*	*14th*	*48·7*	*42·1*	*45·2*	*0·0*	*22*	*0*	*7*	*1·60*	—	*47·7*	—	*50*	—	*Castlebay.*
	a Wick	56	11th	35	12th	49·7	38·1	43·6	+ 1·3	28	11	5	0·40	- 0·05	*	*	*	*	*
	p Strathpeffer.. ..	54	11th, 17th	34	15th	50·3	36·4	43·0	+ 0·4	31	15	7	0·90	+ 0·47	25·8	- 5·4	27	- 6	Strathpeffer.
	p Glencarron	52	11th	33	14th	49·1	37·1	42·8	+ 1·3	26	14	7	2·41	+ 1·11	*	*	*	*	*
	p Fort Augustus S	54	11th	35	15th	50·6	37·2	43·6	+ 0·9	31	13	5	0·87	+ 0·30	20·2	- 5·2	21	- 5	Fort Augustus.
	p Fort William S	54	17th	38	12th, 14th	51·2	39·6	45·1	+ 1·2	32	7	7	1·80	+ 0·79	*	*	*	*	*
1. SCOTLAND, E. .. .. — b, Mainland.	*p* Gordon Castle S	57	11th	33	17th	51·9	35·8	43·5	+ 0·3	37	17	6	0·97	+ 0·57	*29·3*	—	*31*	—	*Gordon Castle.*
	a Nairn	58	11th	30	11th	53·4	33·1	42·8	+ 0·1	43	25	5	0·83	+ 0·51	32·4	—	34	—	Nairn.
	a Aberdeen	62	11th	34	13th, 17th	51·4	35·9	43·3	+ 0·3	35	17	5	1·07	+ 0·61	28·0	- 6·6	29	- 7	Aberdeen.
	a Balmoral .. S	50	14th	28	14th	46·1	31·1	38·2	- 1·2	11	38	5	0·79	+ 0·24	22·5	—	23	—	Crathes S.
	p Crieff .. .. S	56	11th	30	15th	52·5	35·7	43·7	- 0·1	38	18	5	1·23	+ 0·69	23·4	—	25	—	Balruddery
	a Leith	57	17th	35	17th	53·0	38·3	45·3	+ 1·0	39	10	7	0·71	+ 0·42	32·0	+ 4·7	34	+ 5	Edinburgh.
	a West Linton.. S	54	15th	29	15th	49·7	33·9	41·4	+ 0·6	22	31	7	0·51	—	*27·5*	—	*29*	—	*West Linton.*
	p Marchmont .. S	56	17th	34	15th, 16th	52·6	36·6	44·2	+ 2·2	38	15	5	1·47	+ 0·98	30·7	- 0·8	32	- 1	Marchmont.
2. ENGLAND, N.E. — a, North. — b, South.	*a* Alnwick Castle ..	58	17th	33	15th	53·7	39·4	46·2	+ 3·5	40	7	5	0·90	+ 0·45	40·8	—	43	—	Cockle Park.
	a Shields	61	11th	35	15th	55·7	38·1	46·5	+ 3·3	48	11	6	0·72	+ 0·40	*40·4*	*+16·0*	*43*	*+17*	*Newcastle.*
	p Durham	60	12th, 17th	33	12th, 15th	56·8	38·1	47·0	+ 4·1	51	11	6	0·50	+ 0·15	40·8	+10·8	43	+11	Durham.
	p Rounton .. M	62	11th	33	15th	55·9	37·4	46·2	+ 3·5	49	13	6	0·71	+ 0·31	*	*	*	*	*
	p Scarborough.. M	66	11th	38	15th	59·1	41·0	49·6	+ 5·8	57	3	6	0·48	+ 0·08	44·2	—	47	—	Scarborough.
	p York	63	11th	35	15th	57·3	40·3	48·4	+ 3·7	52	5	4	0·54	+ 0·15	40·2	+10·0	43	+11	York.
	a Spurn Head	62	11th, 17th	37	11th	56·0	41·3	48·3	+ 4·3	47	2	5	0·19	- 0·07	*	*	*	*	*
	a Lincoln	67	11th	35	15th	59·5	39·9	49·2	+ 4·1	59	6	3	0·32	- 0·01	46·4	—	49	—	Skegness.
	a Fulbeck	66	11th	38	16th	57·2	41·2	48·8	+ 4·0	51	2	3	0·40	+ 0·04	46·7	—	50	—	Rauceby.
															41·1	—	*44*	—	*Lowestoft.*
	p Cromer	71	11th	37	15th	59·9	40·4	49·7	+ 5·8	61	4	4	0·17	—	33·7	—	36	—	Cromer.
	p Hillington .. M	69	11th	30	15th	60·0	37·2	48·1	+ 3·4	63	13	3	0·33	- 0·07	38·8	+ 4·7	41	+ 5	Hillington.
	a Yarmouth	70	11th	36	15th	59·0	39·6	48·8	+ 5·2	58	7	5	0·33	- 0·01	45·3	—	48	—	Yarmouth.
	a Norwich	70	11th	33	15th	60·5	39·7	49·6	+ 5·3	63	6	5	0·35	—	*	*	*	*	*
	p Geldeston	71	11th	34	15th	60·9	38·5	49·2	+ 4·8	65	10	5	0·28	- 0·08	35·4	- 0·7	38	- 1	Geldeston.
	p Cambridge	70	11th	30	15th	61·4	37·9	49·1	+ 3·6	67	11	2	0·12	- 0·21	38·6	+ 2·9	41	+ 3	Cambridge.
	a Felixstowe	*68*	*11th*	*34*	*15th*	*58·0*	*41·1*	*49·1*	*+ 4·5*	*53*	*3*	*4*	*0·31*	—	*39·9*	—	*42*	—	*Felixstowe.*
	a Clacton-on-Sea ..	69	11th	37	15th	59·0	42·6	50·4	+ 5·9	59	0	4	0·21	—	37·3	—	40	—	Clacton.
	a Rothamsted ..	68	11th	32	15th	59·3	38·5	48·4	+ 4·0	60	10	3	0·20	- 0·18	38·0	+ 4·4	40	+ 5	Rothamsted.
	a Shoeburyness ..	*70*	*11th*	*38*	*15th*	*60·6*	*43·3*	*51·5*	*+ 5·2*	*67*	*0*	*4*	*0·26*	*+ 0·01*	*38·8*	—	*41*	—	*Southend.*
	p Tottenham	69	11th	38	11th, 15th	61·9	42·6	51·8	+ 6·1	69	0	3	0·13	—	37·0	—	39	—	Tottenham.
4. MIDLAND COUNTIES. — a, East. — b, West.	*a* Harrogate	61	11th	35	15th	54·8	39·1	46·6	+ 3·4	44	8	5	0·86	+ 0·42	45·7	—	49	—	Harrogate.
	a Bawtry	67	11th	35	15th, 16th	59·4	39·1	48·8	+ 3·8	60	8	5	0·28	- 0·05	41·0	+11·5	44	+12	Worksop.
	p Buxton .. M	*61*	*11th*	*31*	*15th*	*53·6*	*37·4*	*45·1*	*+ 3·5*	*41*	*13*	*6*	*1·09*	*+ 0·39*	*43·3*	—	*46*	—	*Buxton.*
	a Nottingham ..	67	11th	35	11th, 15th	59·3	39·4	48·9	+ 4·2	59	7	5	0·27	- 0·08	40·1	—	43	—	Nottingham.
	p Birmingham, Edgbn	66	11th	38	15th	58·1	42·1	49·7	+ 5·0	54	0	4	0·29	- 0·13	31·7	—	34	—	Birmingham.
	a Raunds .. M	69	11th	31	15th	62·1	37·7	49·3	+ 4·7	69	12	2	0·17	—	*	*	*	*	*
	a Oxford	66	11th	35	15th	59·1	40·7	49·5	+ 3·8	58	4	4	0·19	- 0·14	35·8	+ 2·1	38	+ 2	Oxford.
	a Cheadie .. M	65	11th	34	15th	54·9	38·6	46·4	+ 2·7	45	10	5	0·85	+ 0·38	43·3	—	46	—	Sheffield.
	p Shrewsbury	64	11th	35	11th, 15th	58·5	40·2	48·9	+ 3·1	56	5	4	0·30	—	*	*	*	*	*
	a Hereford .. M	69	11th	32	15th	60·4	39·9	49·7	+ 4·0	63	6	4	0·17	- 0·22	*	*	*	*	*
	a Cirencester	63	11th	33	15th, 17th	55·7	38·0	46·4	+ 2·1	48	11	4	0·30	- 0·10	30·1	- 4·7	32	- 5	Cirencester.
	a Bath	64	11th	?36	11th	57·9	41·0	49·0	+ 3·0	53	3	5	0·34	- 0·12	33·4	—	36	—	Bath.
															50·1	—	*53*	—	*Ramsgate.*
5. ENGLAND, S.E... .. — a, SCOTLAND. W. .. — b, ISLE OF MAN ..	*p* Kew	68	11th	35	11th	59·9	41·8	50·4	+ 4·3	60	1	4	0.34	0·00	40·4	+ 2·4	43	+ 3	Kew.
	a Marlborough ..	65	11th	30	11th	56·2	36·0	45·6	+ 1·5	50	17	5	0·40	- 0·07	30·3	- 1·2	32	- 1	Marlborough.
	a Margate	69	11th	41	11th	59·8	43·6	51·3	+ 6·0	65	0	3	0·17	- 0·14	43·1	+ 8·3	46	+ 9	Margate.
	a Wisley, Surrey ..	69	11th	35	15th	58·8	41·7	49·8	+ 3·2	56	1	4	0·22	—	40·1	—	43	—	Wisley.
	a Swarraton .. M	69	11th	30	11th	58·5	39·0	48·3	+ 3·5	57	8	4	0·28	- 0·17	44·2	—	48	—	Worthing.
	a Tunbridge Wells M	69	11th	37	15th	58·5	41·3	49·5	+ 4·4	55	2	4	0·10	- 0·30	42·6	+ 6·6	45	+ 7	Tunbridge Wells.
	a Dungeness	55	12th, 15th	32	11th	53·0	40·1	46·2	+ 1·0	37	5	4	0·10	- 0·23	46·1	—	50	—	Littlestone.
	p Hastings	60	11th	40	12th	54·9	43·2	48·8	+ 2·8	48	0	3	0·09	- 0·30	*42·6*	*+ 3·6*	*46*	*+ 4*	*Hastings.*
	p Southampton ..	69	11th	37	11th, 15th	59·7	42·3	50·6	+ 2·9	60	0	3	0·12	- 0·31	34·1	- 3·2	37	- 3	Southampton.
	a Ventnor	61	11th	42	11, 12, 16th	55·6	44·1	49·6	+ 2·6	53	0	4	0·16	- 0·23	39·1	- 1·7	42	- 2	Ventnor.
	a Westminster ..	*70*	*11th*	*38*	*11th*	*60·6*	*42·6*	*51·2*	*+ 5·0*	*64*	*0*	*5*	*0·20*	*- 0·14*	*38·5*	*+13·8*	*41*	*+15*	*Westminster.*
	a Greenwich	*71*	*11th*	*35*	*15th*	*63·0*	*41·8*	*51·9*	*+ 5·5*	*70*	*1*	*5*	*0·23*	*- 0·11*	*42·2*	*+10·2*	*45*	*+11*	*Greenwich.*
	p Laudale	55	17th	39	13th, 14th	51·6	40·8	45·9	+ 1·4	32	3	7	2·83	+ 1·77	*	*	*	*	*
	a Poltalloch .. S	55	11th	38	16th	52·9	40·3	46·3	+ 2·2	37	5	7	1·09	+ 0·46	*	*	*	*	*
	p Glasgow	56	17th	39	12, 13, 15th	51·7	40·3	45·7	+ 2·0	33	5	5	1·26	+ 0·79	30·9	+ 2·9	33	+ 3	Glasgow.
	p Rothesay .. S	56	15th	38	13th, 17th	53·3	39·7	46·2	+ 1·8	39	6	6	1·72	+ 1·05	*	*	*	*	*
	a Kilmarnock	55	17th	37	14th, 15th	51·5	39·1	45·0	+ 1·1	33	8	5	1·13	—	*21·0*	—	*22*	—	*Kilmarnock.*
	a Colmonell .. S	57	15th	30	15th	53·4	37·7	45·2	+ 0·9	40	12	5	0·83	+ 0·23	*	*	*	*	*
	p Dumfries .. S	58	11th	32	15th	55·0	37·6	45·9	+ 1·5	46	12	7	1·30	+ 0·77	*	*	*	*	*
	p Cally, Gatehouse S	56	14th	30	15th	51·9	35·9	43·5	- 0·3	36	17	7	1·29	+ 0·56	*	*	*	*	*
	p Douglas	55	11th	38	15th	52·1	40·1	45·8	+ 1·4	35	5	5	1·56	+ 0·98	34·8	- 5·2	37	- 6	Douglas.
															41·9	—	45	—	Hoylake.
	p Aspatria	54	11th	37	16th	51·6	40·0	45·5	+ 2·1	33	6	6	0·96	+ 0·46	30·2	—	32	—	Aspatria.
	p Newton Rigg ..	54	15th, 17th	31	15th	52·2	38·0	44·8	+ 2·1	36	11	6	0·67	+ 0·16	36·3	+ 2·9	38	+ 3	Newton Rigg.
	p Stonyhurst	57	11th	35	15th	52·4	39·1	45·4	+ 1·7	36	8	7	1·72	+ 1·08	35·0	+ 2·1	37	+ 2	Stonyhurst.
	p Blackpool .. M	55	17th	39	15th	51·6	41·6	46·4	+ 1·9	32	1	6	1·04	+ 0·60	41·2	+ 7·1	44	+ 8	Blackpool.
	p M'nch'ster,Prestwich	61	11th	34	15th	54·8	39·5	46·8	+ 2·6	44	7	6	1·30	+ 0·89	*34·8*	*+ 7·2*	*37*	*+ 8*	*Prestwich.*
	a Liverpool (Bidston)	57	11th, 17th	41	12th	54·3	42·9	48·3	+ 3·2	44	0	6	0·74	+ 0·34	*45·1*	—	*48*	—	*Liverpool.*
	a Hawarden Bridge ..	62	11th	40	15th	57·2	42·8	49·7	+ 3·5	54	0	5	0·44	+ 0·14	*41·4*	*+ 5·7*	*44*	*+ 6*	*Southport.*
															43·1	—	*46*	—	*Rhyl.*
	p Llandudno .. M	57	11th, 14th	42	12th, 15th	55·0	43·3	48·9	+ 3·1	48	0	7	0·96	+ 0·53	37·8	+ 3·3	40	+ 4	Llandudno.
	a Holyhead	55	15th	43	11, 12, 13th	51·7	43·7	47·5	+ 2·1	39	0	6	1·62	+ 1·13	30·1	—	32	—	Aberdovey.
	p Bettws-y-Coed ..	57	12th, 15th	34	15th	54·0	40·1	46·7	+ 1·2	41	5	6	1·98	—	34·1	—	37	—	Bettws-y-Coed.
															30·8	—	33	—	Aberystwyth.
	a Llangammarch Wells	59	11th	31	11th	55·1	36·6	45·4	+ 1·7	46	15	6	1·26	—	29·0	—	31	—	Llangammarch Wells.
	a Pembroke	52	15th	40	12th	50·1	43·3	46·5	+ 1·0	32	0	7	0·88	+ 0·41	32·3	- 7·1	34	- 8	Pembroke.
	a Cardiff	69	11th	38	12th	56·8	40·8	48·4	+ 1·4	50	3	5	0·50	- 0·10	*32·6*	—	*35*	—	*Cardiff.*
															23·8	- 7·0	*26*	- 7	*Tenby.*
	a Clifton	63	11th	41	12th	56·3	42·6	49·1	+ 2·4	50	0	4	0·46	- 0·06	*32·0*	—	*34*	—	*Clifton.*
	a Shaftesbury .. M	66	11th	38	12th	55·3	42·2	48·4	+ 3·9	45	0	4	0·32	- 0·20	*	*	*	*	*
	a Arlington	59	11th	37	15th	54·3	41·1	47·4	+ 2·8	42	3	7	1·26	+ 0·56	30·4	- 7·8	33	- 8	Newquay.
	a Cullompton .. M	67	11th	33	11th	59·3	41·6	50·0	+ 4·0	58	1	6	0·45	- 0·07	24·1	-10·5	26	-11	Cullompton.
	a Portland Bill ..	54	11th, 17th	44	12th, 15th	51·0	45·7	48·2	+ 1·7	43	0	5	0·10	—	*32·6*	—	*35*	—	*Weymouth.*
	p Plymouth	63	15th	36	15th	57·8	43·2	50·2	+ 3·1	57	0	5	0·21	- 0·32	27·8	- 9·9	30	-11	Plymouth.
	p Falmouth	60	11th	41	15th	56·3	45·8	50·8	+ 4·0	62	0	5	0·21	- 0·42	29·2	-10·6	31	-11	Falmouth.
															29·7	*- 9·5*	*32*	*-10*	*Torquay.*
9. IRELAND, N. — a, West. — b, East.	*a* Malin Head	54	17th	40	13th, 15th	51·1	42·1	46·4	+ 2·0	31	0	7	0·60	+ 0·17	*	*	*	*	*
	a Blacksod Point ..	53	12, 13, 15, 16	40	14th, 17th	52·6	43·4	47·8	+ 1·8	41	0	7	1·66	+ 0·98	*	*	*	*	*
	p Markree Castle ..	57	13th, 15th	31	15th	56·0	39·3	47·3	+ 2·7	48	8	7	1·29	+ 0·67	42·4	+10·3	45	+11	Markree Castle.
	p Armagh	58	11th	38	15th	55·9	40·0	47·6	+ 2·9	48	6	5	0·85	+ 0·37	42·7	+10·9	45	+11	Armagh.
	a Donaghadee	59	17th	37	15th	55·1	38·7	46·5	+ 1·7	45	9	6	1·13	+ 0·67	*	*	*	*	*
10. IRELAND, S. — a, East. — b, West.	*p* Dublin, City.. ..	59	11, 15, 17th	42	12, 15, 16th	57·5	43·6	50·2	+ 3·5	57	0	7	1·14	+ 0·72	43·5	+ 7·3	46	+ 8	Phœnix Park.
	a Kilkenny	60	17th	32	15th	57·4	41·9	49·3	+ 3·7	52	0	5	1·24	+ 0·74	*	*	*	*	*
	a Waterford	59	12th	34	15th	56·6	43·6	49·5	+ 3·7	53	0	5	1·28	+ 0·67	*	*	*	*	*
	a Birr Castle	59	15th	37	15th	56·0	42·3	48·8	+ 3·8	48	0	6	1·21	+ 0·72	48·7	+14·9	52	+16	Birr Castle.
	a Foynes	58	16th	39	16th	55·1	44·1	49·3	+ 2·8	51	0	7	1·34	+ 0·77	*	*	*	*	*
	a Cahir .. .. M	60	16th, 17th	34	15th	57·4	42·3	49·8	+ 4·7	55	0	7	1·20	—	*	*	*	*	*
	a Killarney	61	15th	39	15th	57·9	43·9	50·6	+ 4·1	60	0	6	1·21	+ 0·37	*	*	*	*	*
	a Valencia	56	16th	39	15th	54·3	44·0	48·9	+ 1·6	48	0	7	1·16	+ 0·23	43·8	+ 8·4	47	+ 9	Valencia.
	a Roche's Point ..	57	12th	39	15th	54·9	43·9	49·1	+ 2·3	50	0	7	1·40	+ 0·76	50·3	—	54	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	59	13, 14, 15, 16	47	15th	58·6	48·0	53·1	+ 5·1	78	0	4	0·18	- 0·28	31·0	- 8·3	33	-10	Scilly.
	a Jersey, St. Aubins ..	62	11th	37	15th	56·6	44·0	50·0	+ 2·0	56	0	3	0·07	- 0·41	35·9	- 6·5	39	- 7	St. Heliers.
	a Guernsey	60	11th, 17th	40	15th	56·4	46·1	51·0	+ 3·1	63	0	2	0·28	- 0·28	40·2	- 2·6	43	- 3	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 51·7 hrs.* (+ *3·3 hrs.*), 45 % (+ 4 %); *Bournemouth, 31·5 hrs.*, 34 %; *Bognor, 50·7 hrs.*, 44 %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	43·0	—
0.	— —				
0.	— —				
1.	Aberdeen	—	—	—	41·3
1.	Crathes	5	23	42·4	40·9
1.	Balmoral	5	26	—	—
1.	West Linton	6	24	—	—
1.	Marchmont	2	29	43·0	—
2.	Cockle Park	1	29	42·9	42·4
2.	Durham	1	28	—	—
2.	York	—	—	44·8	42·9
2.	Hull	4	29	44·7	42·6
2.	Lincoln	—	—	44·8	42·5
2.	Rauceby	1	29	48·0	44·1
3.	Norwich	3	27	—	—
3.	Yarmouth	—	—	48·0	46·1
3.	Lowestoft	0	31	47·4	44·5
3.	Cambridge	1	27	47·9	45·6
3.	Clacton-on-Sea	2	28	47·3	46·0
3.	Southend	0	35	49·6	—
3.	Tottenham	0	31	—	45·0
4.	Harrogate	1	29	43·3	42·4
4.	Huddersfield	2	30	43·8	40·6
4.	Buxton	3	25	44·2	41·4
4.	Sheffield	0	32	44·7	41·6
4.	Nottingham	3	29	45·9	42·9
4.	Birmingham	4	24	45 0	43·5
4.	Oxford	3	29	—	—
4.	Hereford	½	24	—	—
4.	Cirencester	0	31	—	—
5.	Margate	0	34	47·4	44·7
5.	Greenwich	4	24	—	—
5.	Westminster	1	28	—	—
5.	Kew	3	23	46·7	44·6
5.	Canterbury	2	29	46·6	45·1
5.	Tunbridge Wells	2	27	47·2	—
5.	Wisley	2	27	47·4	45·0
5.	Worthing	1	30	48·0	45·6
5.	Portsmouth	2	28	49·0	47.1
6.	Glasgow	0	32	—	—
6.	Rothesay	—	—	—	43·2
6.	Colmonel	1	28	—	—
6.	Dumfries	—	—	—	—
6.	Douglas	0	32	—	—
7.	Aspatria	1	30	—	—
7.	Newton Rigg	5	18	44·2	41·8
7.	Burnley	3	24	43·0	41·1
7.	Southport	1	30	47·1	44·2
7.	Manchester City	0	35	44·2	43·3
7.	Bettws-y-Coed	0	32	44·6	43·9
8.	Llangammarch Wells	5	16	45·3	44·0
8.	Cardiff	1	30	47·4	44·6
8.	Clifton	0	37	—	—
8.	Bath	—	—	48·4	46·5
8.	Plymouth	2	30	49·8	—
9.	Armagh		35	46·8	44·9
9.	Markree	2	26	—	—
10.	Dublin, Trin. Coll.	0	33	47·7	46·1
11.	Guernsey, Brooklyn	1	28	50·5	47·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	44	44	44·0
SCOTLAND, N.	Kirkwall	47	44	45·1
SCOTLAND, N.	Wick	46	45	45·2
SCOTLAND, E.	Cromarty	?	?	?
SCOTLAND, E.	Pennan Bay	47	43	45·2
SCOTLAND, E.	Aberdeen, Cove Bay	45	42	43·9
ENGLAND, N.E.	Burnmouth, Berwick	42	40	41·3
ENGLAND, N.E.	Scarborough	48	43	45·0
ENGLAND, E.	Shipwash Lightship	45	43	43·7
ENGLAND, E.	Margate	51	46	48·0
ENGLAND, S.E.	Eastbourne‡	47	46	46·1
SCOTLAND, W.	Lamlash	46	44	45·1
SCOTLAND, W.	Ballantrae	46	45	45·3
ENGLAND, N.W.	Port Erin	47	45	45·7
ENGLAND, S.W.	Newquay	50	49	49·4
ENGLAND, S.W.	Plymouth‡	51	48	49·5
ENGLAND, S.W.	Salcombe	51	47	49·3
IRELAND, N.W.	Sheephaven	48	46	47·8
IRELAND, N.W.	Teelin	51	47	49·2
IRELAND, S.W.	Cleggan	52	48	49·4
IRELAND, S.W.	Seafield	54	49	51·4
IRELAND, E.				

‡ Only one observation each day.

APPARATUS USED IN THE KITE ASCENTS ON p. 128.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11
No. of Kites	1	1	1	1	1	1	1	1	1	1	1
Area of Surface (sq. metres)	4	6·4	6·5	7	6·4	6·9	4	5·8	6·9	7	5·3
Length of Wire (metres)	1,410	450	?	1,600	1,400	1,000	1,050	950	1,050	1,000	2,200

CORRECTIONS AND ADDITIONS FOR MARCH, 1909.

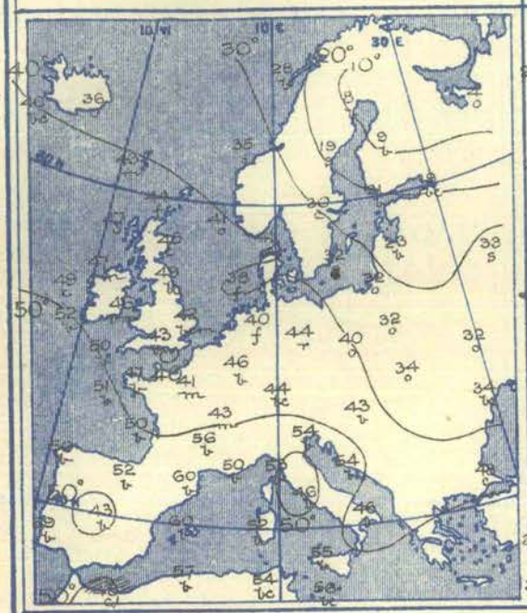
NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine. All corrections are incorporated in the results issued in the Monthly Summary.

NUMBER AND PAGE OF REPORT.	NUMBERS OF DISTRICTS AND NAMES OF STATIONS.	Temperature. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Daily Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 12, p. 98	7. Scotland, N.W.	56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 13, p. 106	4. Midland Counties.	61	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 13, p. 106	6. Scotland, W.	—	—	—	—	—	—	—	—	—	—	—	1·37	+0·61	—	—	—	—
Station Values.— Additions.																		
No. 10, p. 83	Tunbridge Wells M	47	8th	30	8th	39·1	31·8	35·3	−4·3	0	47	6	0·53	+0·03	15·2	−8·3	20	−11
No. 13, p. 107	Raunds M	61	29th	25	2nd	51·3	36·6	43·7	+1·3	35	15	4	0·54	—	—	—	—	—
No. 13, p. 107	Kilmarnock	47	2nd	27	2, 3	43·4	33·1	38·1	−4·0	4	31	5	0·66	—	6·8	—	8	—
No. 13, p. 107	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	14·4	—	16	—
Station Values.— Corrections.																		
No. 9, p. 75	Hereford M	—	—	—	—	—	19·7	28·0	−12·2	0	98	—	—	—	—	—	—	—
No. 9, p. 75	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	—	—	14·4	− 9·6	19	−12
No. 9, p. 75	Markree Castle	—	—	—	—	—	23·3	30·5	−10·1	0	81	—	—	—	—	—	—	—
No. 10, p. 83	Hillington M	—	—	—	—	—	—	—	—	—	—	—	—	—	10·6	−12·6	14	−16
No. 11, p. 91	Fulbeck	—	—	—	—	43·6	—	36·6	−4·4	4	—	—	—	—	—	—	—	—
No. 11, p. 91	Stonyhurst	—	—	—	—	—	—	—	—	—	—	—	0·15	−0·66	—	—	—	—
No. 12, p. 99	Stonyhurst	—	—	—	—	—	—	—	—	—	—	—	0·77	0·10	—	—	—	—
No. 12, p. 99	Bettws-y-Coed	56	1st	—	—	52.1	—	44·3	+1·4	37	—	—	—	—	—	—	—	—
No. 12, p. 99	Clifton	—	—	—	—	—	—	—	—	—	—	—	—	—	18·9	—	23	—
No. 13, p. 107	Hillington M	—	—	—	—	—	—	—	—	—	—	—	—	—	25·2	− 4·1	29	− 5

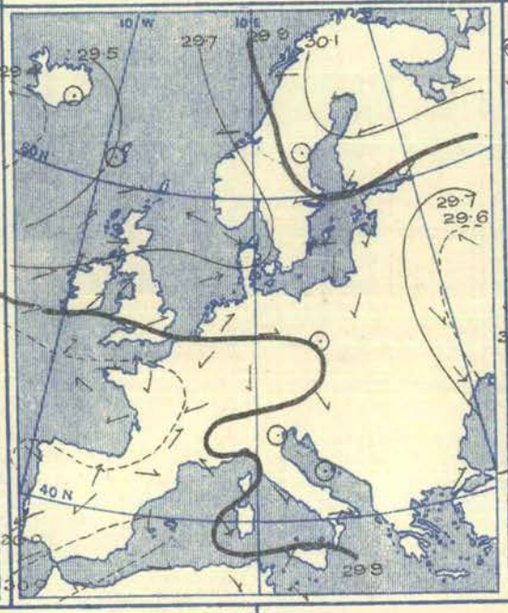
		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
Station Values.— Additions.					
No. 10, p. 84	Tunbridge Wells M	3	20	34·8	—
No. 11, p. 92	Bath	—	—	38·6	41·8
No. 12, p. 100	Douglas	1	28	—	—
Station Values.— Corrections.					
No. 12, p. 100	Markree	—	20	—	—

Sunday, 11th April, 1909.

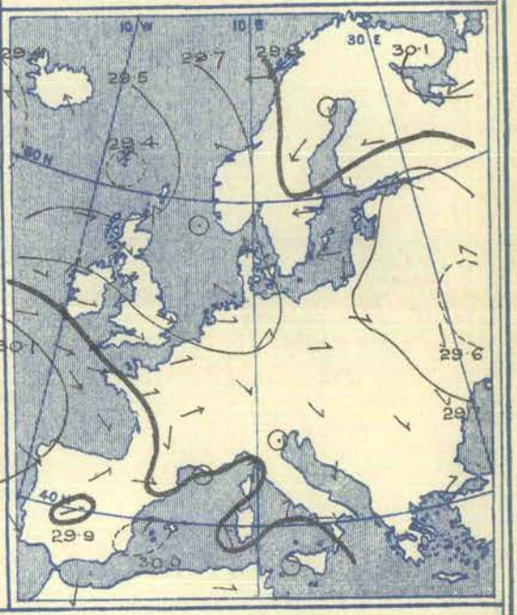
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy, with some rain on our extreme west and north-west coasts and also over Germany, and snow falling in some parts of Scandinavia and at Moscow. Fair to very fine and bright in almost all other regions. Some rain later in day or at night over our western and northern districts and at a few stations further east, and also in some localities in central Europe, but weather continuing fine in most places.

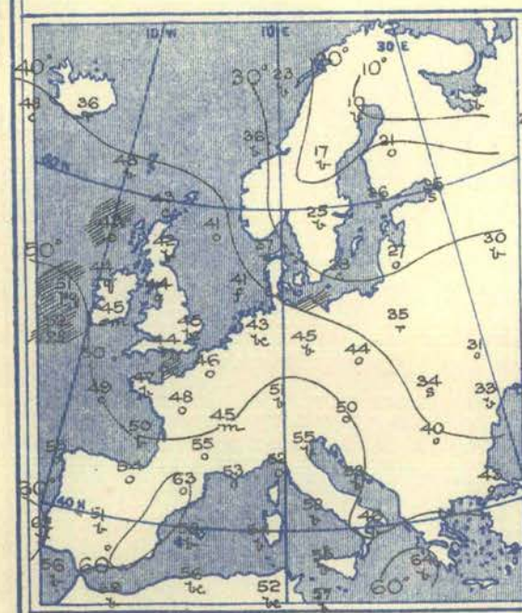
Temperature risen over the United Kingdom, and morning readings about 50° except in the east and north. Changed rather irregularly on the Continent, and morning figures ranging from 60° at Palma and Barcelona to below 50° generally, below 32° in the north and north-east, and to only 4° at Archangel. Rising during day to 70° in London and the east of England and in a few parts of southern Europe, as well as at Frankfort, but only touching 57° at Brindisi and 52° at Constantinople. Maxima as high as 80° at Perpignan and Sfax.

Wind in morning Westerly or South-Westerly over these Islands, Germany, and Denmark, and between East and North over Scandinavia. Light variable breezes prevailing over the south of our area, and a partial cyclonic circulation shown over Russia. Scarcely any change occurring during day.

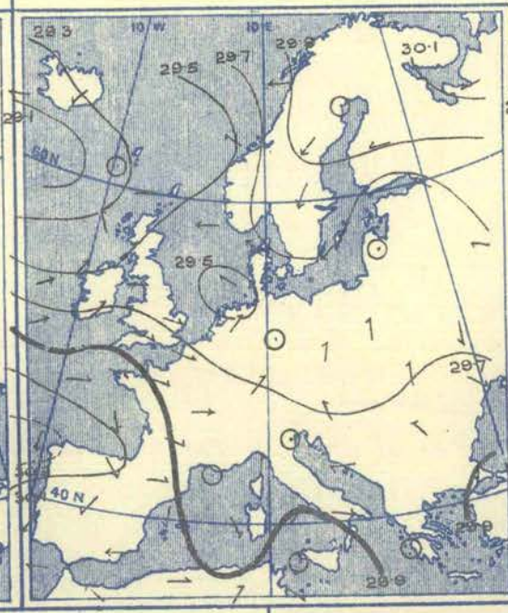
Barometer in morning above 30·1 ins. in the north-east of our area, and above 30·0 ins. over the Bay of Biscay and the adjacent portion of the Atlantic. Below 29·6 ins. in a depression over Russia, and less than 29·5 ins. over Iceland and its neighbourhood. Little modification taking place later in day in the general distribution of pressure, but Russian depression becoming deeper, and a small minimum appearing between Shetland and the Faeroes. Barometer continuing to fall over this country; briskly in the east and over the North Sea.

Monday, 12th April, 1909.

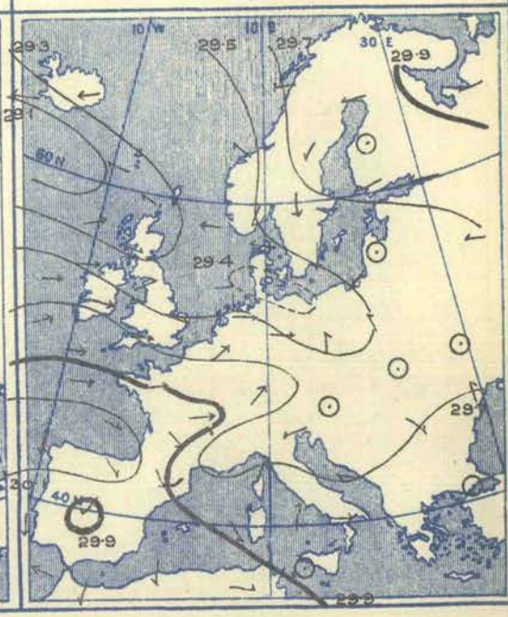
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright in most parts of Great Britain, but cloudy or overcast in Ireland, Wales, and the west of Scotland, with rain or passing showers in places. Fair or fine over the major portion of the Continent, but rainy in various parts of central Europe and the Netherlands, and snow falling at Lemberg and at some stations in Russia and the south of Scandinavia. Some rain during day in all parts of these Islands, and a thunderstorm at Donaghadee and in some localities in the east of England. Rain falling very generally over the northern part of the Continent.

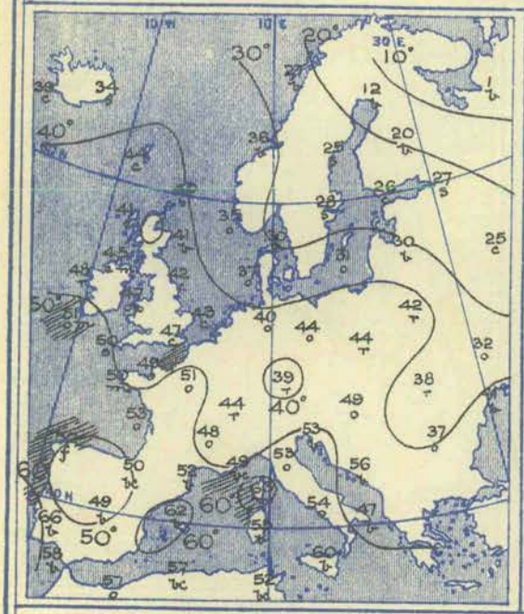
Temperature fallen over northern and north-western Europe. Readings in morning about 45° at most of our own stations, below 30° over most of Russia and Scandinavia, and as low as 3° at Archangel. Above 60° at some places in the far south of our area. Maxima during day below 55° in nearly all parts of these Islands, the Low Countries, and Germany. Above 60° over a large portion of France and almost the whole of southern Europe, and as high as 70° in some places. Night milder than of late in this country.

Wind in morning Westerly, moderate to fresh over England, moderate to strong from South-West in Ireland, fresh from the South-Eastward in the Hebrides, and light from East in Iceland. Moderate to strong winds from between East and North-East prevailing over Scandinavia and the Baltic, and light winds from various quarters over the east and south of our area. Increasing in force from the Westward during day in most parts of these Islands the Low Countries, and North Germany.

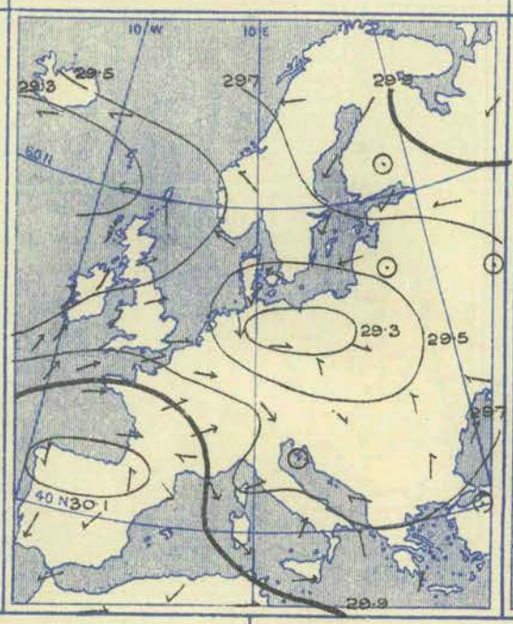
Barometer in morning above 30·2 ins. in the north-west of Spain, and above 30·0 ins. in the north-east of our area. Below 29·5 ins. in a depression over the eastern part of the North Sea, and below 29·1 ins. in a larger system off the south of Iceland. Little change in the general distribution later in day, but North Sea disturbance becoming deeper and moving slowly eastwards. Pressure falling rather briskly in the north-east of these Islands.

Tuesday, 13th April, 1909.

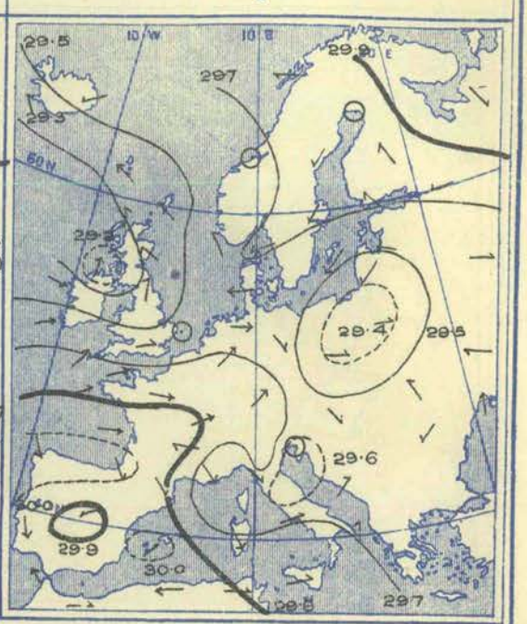
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled, with much cloud and occasional rain over nearly the whole of this country and the central countries of the Continent; fair to fine and bright in the south and north of our area generally, but snow falling at St. Petersburg and at some Swedish stations. Rain or showers later throughout this country, the north of France, and central Europe, but measurements not heavy.

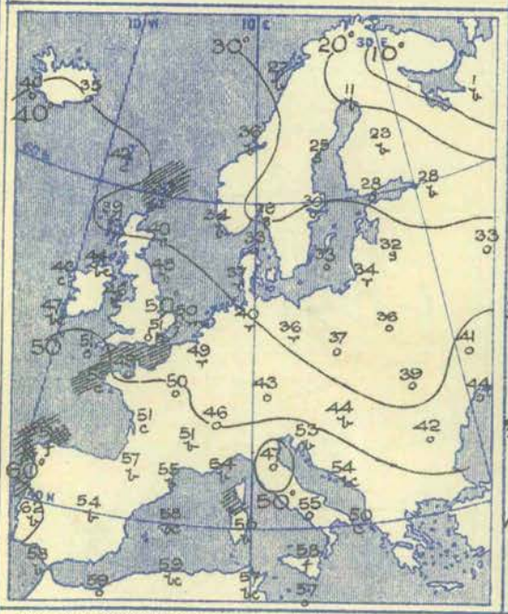
Temperature fallen over the central countries, showing no decided change as a whole. Morning readings ranging from above 60° at various places in the far south to about 50° in the south of these Islands and the north of France, about 45° in Austria, and to much below 32° in the extreme north and north-east of our area; lowest reading 1° at Archangel. Rising during day to 55° or rather higher in several parts of these Islands, to between 60° and 70° in France and southern Europe, and to above 70° at various places in Spain and also in Algeria.

Wind in morning showing a very extensive cyclonic circulation of considerable strength over Germany and the neighbouring regions, and an anticyclonic movement over the Spanish Peninsula. Mainly between West and South in the United Kingdom, and moderate or light, but fresh from the South-Eastward at Thorshavn, and light from East in Iceland. Circulation becoming more cyclonic later over these Islands, and South-Westerly wind increasing on some parts of our south-west coast. Cyclonic movement setting in over central Spain and the Italian region.

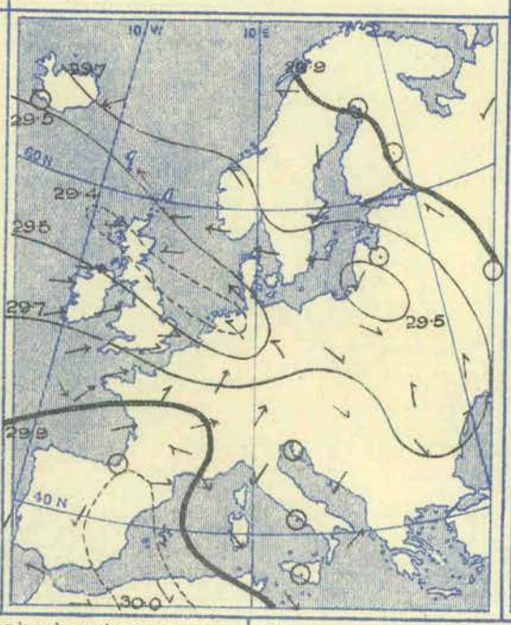
Barometer in morning above 30·1 ins. over the north of Spain, and nearly 30·0 ins. over the White Sea. Below 29·3 ins. in a depression between Iceland and Scotland, and also in a disturbance over Germany. A well-defined minimum appearing off the north of Ireland by evening, and depressions developing over the centre of Spain and over the Adriatic. German disturbance moving slowly eastward. Pressure increasing somewhat in Iceland and Scandinavia.

Wednesday, 14th April, 1909.

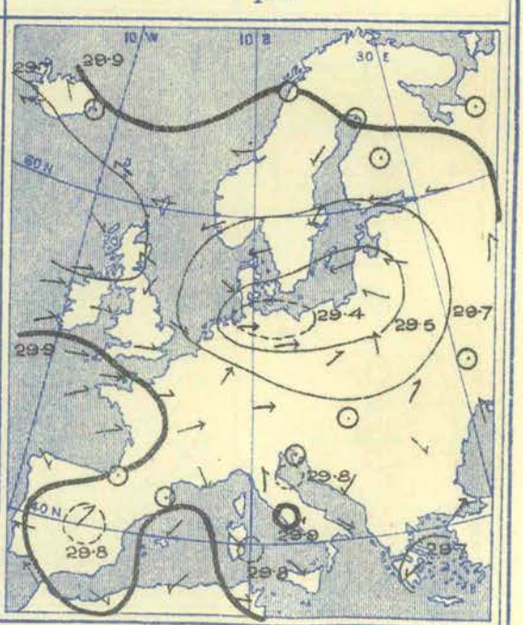
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning mostly very cloudy or overcast in these Islands and over the nearer regions of the Continent, with rain in many places. Fair to very fine over southern Europe and the Mediterranean. Snow falling in Sweden and the south of Norway, as well as at Riga, and rain at Memel. Rain later in various parts of this country and throughout central Europe, and also in Greece, and rain or snow in Russia. Largest measurements 1·2 in. at Aix-la-Chapelle and 1·0 in. at Patras.

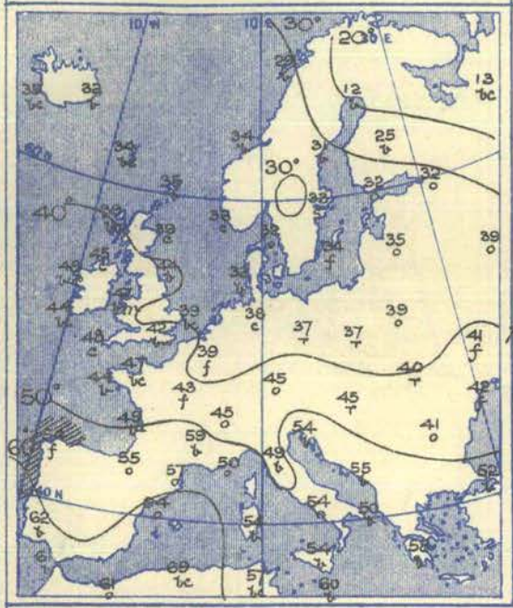
Temperature risen in the south of England and the Netherlands, fallen in most other regions. Morning readings as low as 1° at Archangel and below 32° in the north-east of our area generally; about 40° in central Europe and in Scotland, about 50° in the south of England and at many stations in southern Europe, and above 60° in Portugal and at some places on the shores of the Mediterranean. Maxima during day about 60° over a considerable portion of England, but only 41° at Aberdeen, and not much above 50° in the central countries of the Continent. Thermometer rising to 81° at Madrid, Tunis, and Sfax, to 82° at Perpignan, and to above 70° at many other southern stations.

Wind in morning moderate to fresh or strong from the Westward over Ireland, England, and the adjacent portion of the Continent, South-Easterly in Denmark, between North and East in Scandinavia, and South-Easterly or Easterly in the Icelandic region. A gale from East reported at Oxö. Light to fresh breezes, mainly from North-West, prevalent over the western half of the Mediterranean, and a complete cyclonic circulation of little force shown around Poland. No change of much importance later in day.

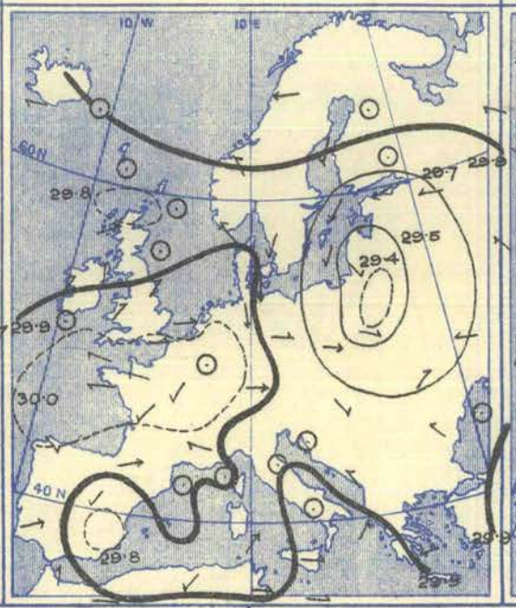
Barometer rather high in the extreme north and south-west of our area, and low in an elongated depression extending from the Hebrides to the mouth of the Elbe, and also in a disturbance over Poland. Pressure increasing decidedly later over these Islands and the North Sea, and also in Iceland, falling in Germany and over the Baltic. A depression forming over central Spain by evening.

Thursday, 15th April, 1909.

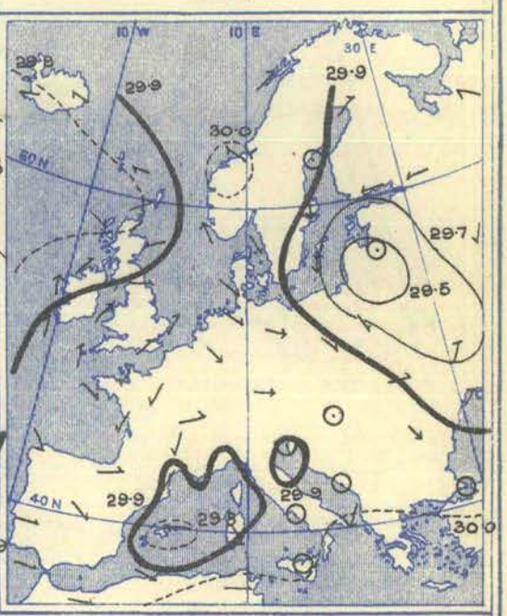
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater portion of these Islands, but rain or showers on the extreme north-west coasts. Snow falling in the south of Sweden, and rain over Poland and its neighbourhood. Fair or fine and bright over the Continent as a whole. Some rain later in the west and north of these Islands, 0·7 in. at Holyhead, and 1·0 in. at Roche's Point. Continuing dry over the east and south-east of England and over the major portion of the Continent, but rain or snow experienced in several parts of Russia.

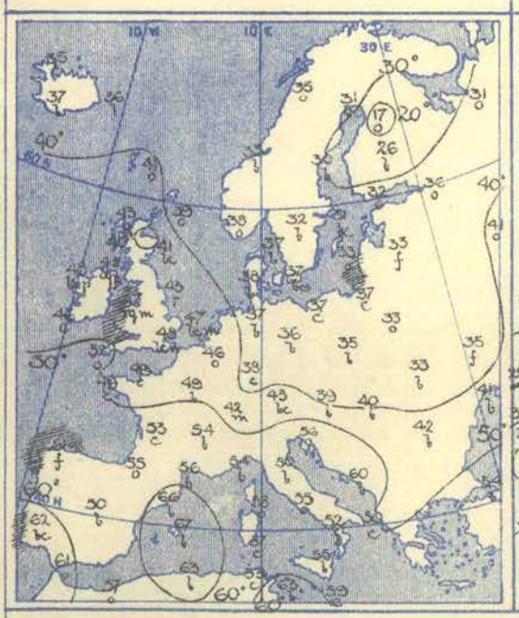
Temperature showing no decided change. Readings in morning ranging from above 60° at several stations in the far south of our area to about 40° in many parts of the United Kingdom and central Europe, and to 20° or below in the extreme north-east. Rising to about 60° during day in various parts of this country, but remaining below 50° at some German and Austrian stations. Thermometer touching or exceeding 70° in many localities in the south, and reaching 82° at Madrid and Aumale.

Wind in morning circulating cyclonically over Russia and the adjoining countries, and blowing strongly from North-East or North over the Baltic. Mainly Westerly or South-Westerly and of little force over these Islands, and rather variable over the Mediterranean. Increasing to gale force from the Northward by evening over the Baltic, and backing to South in Ireland, but little other change.

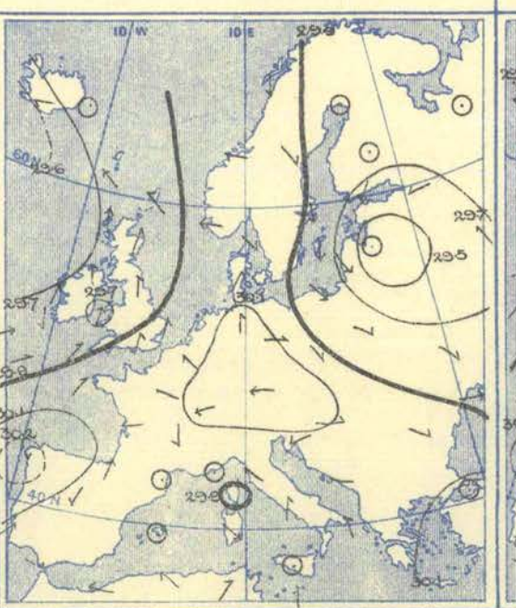
Barometer in morning above 30·0 ins. over the Bay of Biscay, the north of France, south of England, and the Netherlands, and nearly as high in the far north of our area. Below 29·8 ins. in a shallow depression off the north of Scotland, and below 29·4 ins. in a more important system centred over East Prussia and Poland. Continental depression remaining almost stationary during day, and little change occurring in the general distribution of pressure. Falling slowly in the west of Ireland by evening, and a small baric minimum appearing over the Irish Sea region during night.

Friday, 16th April, 1909.

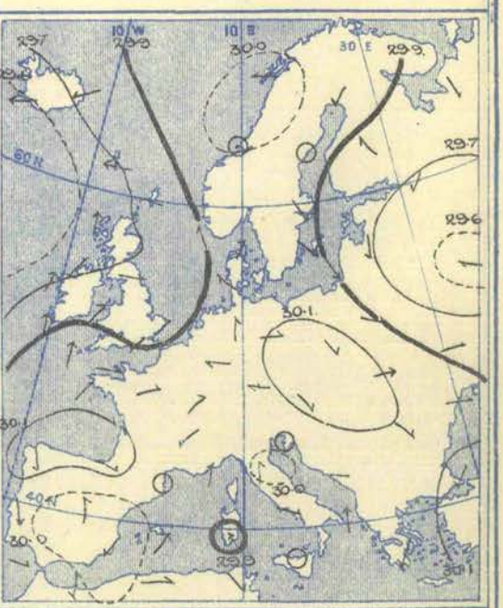
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast in these Islands, with rain or passing showers in the west and north. Fair to very fine over the greater portion of the Continent, but overcast in the northern half of Russia, and snow falling over the Gulf of Finland. Rain in nearly all parts of our Islands later, but amounts nowhere large.

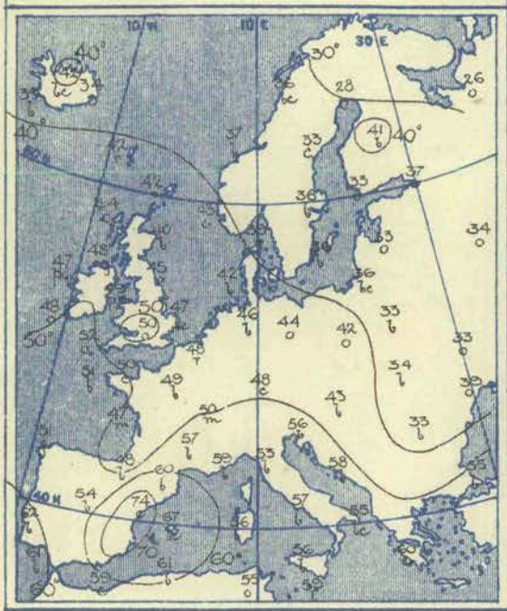
Temperature risen over this country and France, fallen over central Europe. Readings in morning below 40° in some parts of Scotland and over the northern half of the Continent, and below 20° in the north of Finland. Nearly 50° in the south of England and north of France, above that figure at almost all stations in the south of Europe, and above 60° in many places. Maxima below 50° on the north-east coast of Britain, but above 60° over a large part of southern England, and ranging between 70° and 80° over France generally.

Wind in morning showing three separate cyclonic circulations, one over these Islands, another over the Mediterranean, and a third over the east of Russia and the adjacent regions. Southerly current high at Pembroke and Holyhead, and Northerly current blowing a strong breeze over the Baltic; little force elsewhere. Wind decreasing in force during day in districts just named, not much other change.

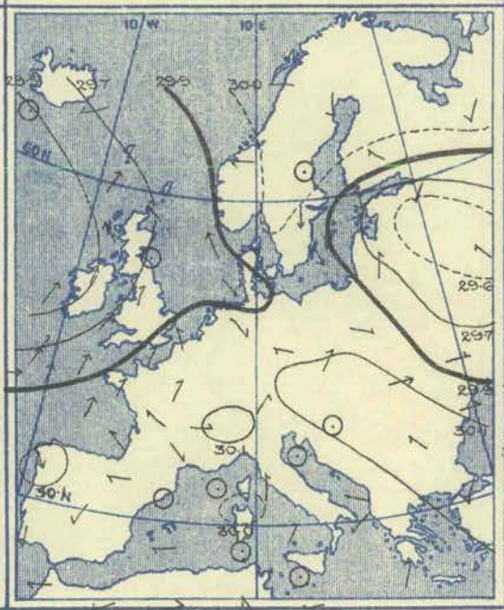
Barometer in morning above 30·2 ins. in the north-west of Spain, and above 30·1 ins. over the central countries of the Continent. Below 29·6 ins. off the south-west of Iceland, below 29·7 ins. in a small disturbance between Ireland and Wales, less than 29·5 ins. in a more important system over the Baltic Provinces of Russia, and relatively low in a large shallow depression having its minimum over Corsica. No change taking place during day on our western coasts, but Baltic depression moving eastwards across Russia, and that over Corsica southwards to Sardinia.

Saturday, 17th April, 1909.

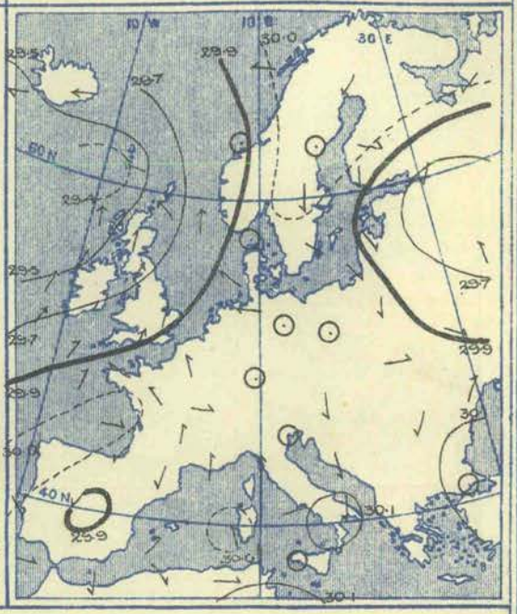
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast at most of our own stations and in Belgium; with rain or passing showers in a few localities. Fair to fine and bright over the major portion of the Continent and the Mediterranean, but dull in Russia, and rainy in the south of Norway and at Skagen. Some showers later in most parts of these Islands and Brittany; fair or fine generally.

Temperature showing little change. Readings in morning above 70° at Barcelona and above 60° at some other southern stations, but below 50° generally, and below 32° in the far north-east and north of our area. Rising subsequently to about 60° in several parts of this country, Germany, and Austria-Hungary, to above 70° in many French localities and over the Mediterranean region, and to 81° at Clermont. Maxima below 50° in the extreme north of our Islands and on the shores of the Baltic, and below 40° at some stations in Scandinavia.

Wind in morning light to fresh from the Southward in Ireland and England, and from the South-Eastward or Southward in Scotland. A complete cyclonic circulation of light to fresh breezes prevailing over Russia and the regions immediately surrounding, and light variable airs elsewhere. No important change later in day; wind veering towards South-West in this country.

Barometer in morning below 29·6 ins. in a depression over Russia, and below 29·5 ins. in a large system on the Atlantic. Relatively high both over the Black Sea region and Austria-Hungary, and also in Scandinavia. Pressure very uniform over the Mediterranean and the southern countries of the Continent. Scarcely any change occurring in the general distribution of pressure during day. A decided fall of the mercury taking place off the north-west of Scotland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	April 12th, 9.50 a.m. to 10.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	83° 60% 250°, 9	82·5° 75% 250°, 16	80·5° 90% 250°, 17	76·5° 100% 250°, 18				77° 100% 250°, 19	1,150	Clear to overcast. Raining by 11 a.m.
2	April 13th, 4.30 p.m. to 4.47 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	80° 94% 180°, 5	79° 95% 184°, 6	79° 96% 186°, 6	75° 100% 208°, 12				73° 100% 220°, 18	1,300	Kite broke away and was found next day. Weather as No. 3.
3	April 13th, 5.32 p.m. to 5.45 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	80° 96% 200°, 5	79° 97% 206°, 8	79° 98% 210°, 11					78° 100% 220°, 16	650	Fair to dull, overcast and rain later. Gentle breeze, steady. Clouds Nim. 10 at 400 metres. Very strong gusty W. wind above.
4	April 14th, 10.0 a.m. to 12.15 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	84° 75% 270°, 7	83·5° 75% 280, 11	82·5° 80% 305°, 13	77·5° 100% 325°, 18				77·5° 100% 280°, 15	1,380	Unusual backing of the upper wind. Clouds at 950 m. At 3 p.m. clouds at 1,650 m., velocity 19 m.p.s.
5	April 14th, 3.45 p.m. to 5.11 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	80° 65% 290°, 10	79° 70% 282°, 12	79° 70% 280°, 13	74° 80% 282°, 14				72° 83% 278°, 14	1,250	Fair to dull, no rain. Strong breeze. Clouds Cu.-N. 6-8.
6	April 15th, 1.54 p.m. to 2.42 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	83° 52% 276°, 5	81° 51% 280°, 6	80° 51% 282°, 9					77° 51% 272°, 11	800	Fair and bright. Gentle breeze from NNW. Clouds Cum. 9-3. Wind very variable and light.
7	April 16th, 10.12 a.m. to noon.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	87·5° 80% 180°, 8	86·5° 80% 190°, 14	82·5° 90% 200°, 18					83° 90% 210°, 18	950	Overcast to clear. Wind changed from 160° to 200° during ascent. 20 m.p.s. at 500 m. at 10.20 a.m., 16 at 11.40 a.m. Extremely gusty up to 600 m., steady above.
8	April 16th, 12.10 p.m. to 12.50 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	83° 83% 244°, 9	82° 85% 243°, 10	82° 87% 242°, 11					80° 93% 244°, 15	950	Weather overcast and rain in morning, bright and calm later. Clouds Cu.-N. 10 to 1. Storm kite on heavy wire.
9	April 16th, 1.11 p.m. to 2.4 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	79° 80% 290°, 10	79° 80% 290°, 11	78° 80% 284°, 12	74° 80% 260°, 13				73° 80% 240°, 14	1,250	Weather as above, but calmer. Large kite on light wire. Wind direction uncertain as kite was hidden.
10	April 17th, 10.30 a.m. to 12.5 p.m.	Brighton, 116 m.	Temperature Humidity .. Wind	84° 100% 230°, 6	84° 95% 240°, 10	83° 85% 250°, 12					83° 80% 260°, 13	800	Thick scud at 70 m. Fr.-Cu. not reached. Sunny afternoon.
11	April 17th, 1.2 p.m. to 2.22 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	84° 79% 200°, 7	83° 80% 208°, 9	83° 80% 212°, 10	77° 93% 240°, 14	74° 93% 222°, 15			72° 93% 220°, 15	1,900	Dull, overcast to rain. Clouds Ni. 10 at 1,050 m. Moderate SSW breeze. Kite collapsed and fell from 1,700 m.

63, Victoria Street, London, S.W. *April 21st, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 16. SIXTEENTH WEEK, SUNDAY APRIL 18TH TO SATURDAY APRIL 24TH, 1909. [*Price 6d.*
Annual Subscription post paid £1 10*s.* 0*d.*

I.—General Remarks.

Weather was generally changeable and unsettled, but bright, sunny intervals were very common in most parts of the Kingdom. Thunderstorms were experienced at Guernsey and at one or two places on the south coast, and also at Colmonell and Liverpool, on Monday, and in several parts of the Kingdom either on Friday or Saturday.

Temperature was above the average, the excess being more than 3° in most English districts, and more than 5° in England E. The highest of the maxima were recorded on rather irregular dates, and ranged from 69° in England E. to 60° in Ireland N. and to 59° in Scotland N. The lowest of the minima, which occurred at most places on the 21st, ranged from 27° in Scotland E. and England S.E., and slightly below 32° in several other parts of Great Britain to 38° in Ireland N. and to 43° in the English Channel. The lowest grass minima reported were 18° at Llangammarch Wells, 20° at Newton Rigg and Birmingham, 22° at Hereford, 23° at Balmoral, West Linton, and Greenwich, and 25° at Buxton and Burnley.

Mean Temperature of the Sea.—At nearly every station the water was warmer than during the same period of last year. The means for the week ranged from about 50° on the south-west coasts of England and Ireland to about 45° in various parts of the east coast, and to 41° at Burnmouth.

Rainfall exceeded the normal except in Scotland N., the excess being very considerable in most districts. During a thunderstorm at the end of the period nearly an inch fell on the south coast of Kent.

Bright Sunshine was more than the average, except in the north and west of Scotland, the English Channel, and the north of Ireland. The percentage of the possible duration ranged from 60 in England E. and 51 in the Midland Counties to 35 in Scotland W. and Ireland N., and to 32° in Scotland N.

Barometer and Wind.—During the greater part of the period pressure was highest to the north-eastward and southward of the United Kingdom, and lowest on the Atlantic. Some shallow and ill defined disturbances of a secondary nature appeared from time to time over these Islands or in their immediate neighbourhood, but on Thursday a large and deep Atlantic depression encroached on all our western districts and caused the wind to increase greatly in force, a gale being experienced at some coast stations. The system subsequently moved away to the Atlantic again, and the winds decreased in force, but at the end of the week a shallow disturbance from the Atlantic covered a considerable portion of the Kingdom.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 132.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Moderate	Heavy	Very heavy	Heavy	Heavy	Heavy	Heavy	Very heavy	Heavy	Heavy	Heavy	Moderate
	Sunshine ...	Moderate	Abundant	Abundant	Very abundant	Abundant	Abundant	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 7 weeks from Mar. 7th, 1909.	Warmth ...	**2** * **1**	**3** * **4**	**3** * **2**	**3** * **0**	**3** * **2**	**3** * **2**	**4** * **1**	**4** * **2**	**3** * **2**	**4** * **1**	**3** * **2**	**3** * **1**
	Rainfall ...	**1** * **4**	**5** * **1**	**5** * **1**	**4** * **1**	**3** * **1**	**3** * **1**	**3** * **2**	**4** * **2**	**2** * **1**	**3** * **2**	**4** * **2**	**4** * **1**
	Sunshine ...	**1** * **1**	**2** * **3**	**2** * **3**	**2** * **4**	**2** * **3**	**2** * **3**	**2** * **3**	**3** * **2**	**2** * **2**	**2** * **2**	**3** * **2**	**1** * **4**

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	**1** * **5**	**1** * **6**	**4** * **4**	**2** * **3**	**2** * **3**	**1** * **4**	**1** * **3**	**1** * **2**	**2** * **5**	**1** * **4**	**1** * **4**	**2** * **6**
	Rainfall ...	**3** * **3**	**5** * **2**	**5** * **4**	**6** * **3**	**7** * **4**	**6** * **2**	**5** * **3**	**4** * **5**	**6** * **3**	**5** * **2**	**3** * **3**	**6** * **3**
	Sunshine ...	**4** * **4**	**2** * **4**	**2** * **6**	**2** * **6**	**1** * **6**	**3** * **4**	**3** * **4**	**2** * **1**	**2** * **3**	**3** * **3**	**1** * **4**	**2** * **7**
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	**4** * **4**	**4** * **6**	**4** * **4**	**1** * **3**	**5** * **4**	**2** * **4**	**3** * **3**	**2** * **4**	**3** * **3**	**2** * **3**	**3** * **3**	**3** * **3**
	Rainfall ...	**2** * **7**	**3** * **6**	**2** * **8**	**3** * **6**	**4** * **7**	**3** * **7**	**4** * **5**	**5** * **5**	**3** * **8**	**5** * **8**	**2** * **6**	**2** * **6**
	Sunshine ...	**4** * **3**	**6** * **4**	**5** * **4**	**5** * **4**	**7** * **4**	**6** * **2**	**5** * **3**	**7** * **3**	**7** * **3**	**4** * **3**	**5** * **4**	**5** * **4**
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	**10** * **2**	**8** * **3**	**10** * **1**	**7** * **2**	**8** * **2**	**6** * **2**	**10** * **2**	**7** * **2**	**6** * **2**	**10** * **2**	**9** * **2**	**10** * **2**
	Rainfall ...	**5** * **6**	**5** * **5**	**3** * **6**	**2** * **5**	**2** * **5**	**1** * **7**	**5** * **5**	**2** * **5**	**2** * **5**	**3** * **6**	**4** * **4**	**2** * **6**
	Sunshine ...	**3** * **3**	**4** * **6**	**2** * **4**	**4** * **3**	**3** * **4**	**8** * **1**	**1** * **7**	**6** * **4**	**4** * **3**	**2** * **5**	**1** * **6**	**7** * **2**
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	**3** * **2**	**3** * **2**	**2** * **7**	**4** * **6**	**2** * **6**	**4** * **6**	**3** * **2**	**4** * **6**	**4** * **6**	**5** * **1**	**4** * **2**	**5** * **5**
	Rainfall ...	**2** * **6**	**3** * **5**	**1** * **6**	**3** * **7**	**3** * **7**	**4** * **8**	**4** * **3**	**2** * **6**	**4** * **8**	**3** * **4**	**3** * **6**	**5** * **8**
	Sunshine ...	**6** * **2**	**5** * **3**	**3** * **3**	**4** * **6**	**4** * **6**	**5** * **4**	**4** * **2**	**8** * **1**	**6** * **2**	**4** * **5**	**2** * **4**	**6** * **3**

7858 450 Wy. & S. Ltd. 4—09.

SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

SIXTEENTH WEEK—April 18th to 24th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees: Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	59	30	53·4	39·8	46·3	+ 3·0	39	+ 11	6	− 11	5	+ 1	0·57	−0·06	33	0	22	0
Eastern																		
1. SCOTLAND, EAST	61	27	55·0	38·3	46·3	+ 2·6	46	+ 12	10	− 8	4	+ 1	0·82	+0·39	42	+ 9	42	+ 9
2. ENGLAND, N.E.	67	31	57·5	41·0	48·9	+ 4·4	53	+ 21	3	− 9	4	0	0·98	+0·62	45	+ 11	46	+11
3. ENGLAND, EAST	69	32	60·0	43·0	51·1	+ 5·3	64	+ 22	0	− 12	3	0	0·56	+0·20	58	+ 21	60	+22
4. MIDLAND COUNTIES	67	30	59·7	40·3	49·5	+ 3·7	60	+ 17	5	− 8	4	+ 1	0·93	+0·53	49	+ 15	51	+16
5. ENGLAND, S.E.	67	27	58·2	43·4	50·5	+ 3·5	60	+ 15	0	− 7	4	+ 1	0·95	+0·55	46	+ 9	47	+ 9
Western																		
6. SCOTLAND, WEST	62	32	55·0	41·4	47·9	+ 2·8	44	+ 8	2	− 9	4	+ 1	0·99	+0·38	34	− 2	35	− 2
7. ENGLAND, N.W.	63	33	57·0	42·4	49·4	+ 3·6	52	+ 15	0	− 8	4	+ 1	1·20	+0·75	46	+ 10	47	+10
8. ENGLAND, S.W.	62	28	55·4	43·9	49·4	+ 2·5	52	+ 9	0	− 6	5	+ 2	1·18	+0·64	43	+ 5	45	+ 5
9. IRELAND, NORTH	60	38	55·1	42·8	48·7	+ 2·8	47	+ 9	0	− 8	6	+ 2	0·73	+0·20	34	0	35	0
10. IRELAND, SOUTH	61	34	55·8	43·9	49·6	+ 2·3	53	+ 9	0	− 5	6	+ 2	0·99	+0·39	38	+ 2	39	+ 2
11. ENGLISH CHANNEL	65	43	57·8	47·3	52·3	+ 3·4	72	+ 23	0	− 1	5	+ 1	0·58	+0·11	42	− 3	43	− 3

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 7 Weeks, March 7th to April 24th, 1909.

0. SCOTLAND, NORTH	63	20	*	*	*	*	127	+ 9	171	− 14	30	− 3	3·53	−2·61	176	− 8	29	− 1
Eastern																		
1. SCOTLAND, EAST	69	7	*	*	*	*	145	− 12	222	+ 23	31	+ 4	5·73	+2·35	175	− 26	28	− 4
2. ENGLAND, N.E.	70	21	*	*	*	*	207	+ 45	153	0	28	+ 3	4·44	+1·76	225	+ 5	37	+ 1
3. ENGLAND, EAST	71	21	*	*	*	*	238	+ 26	126	− 34	26	+ 3	2·81	+0·36	253	+ 30	41	+ 5
4. MIDLAND COUNTIES	73	17	*	*	*	*	255	+ 35	156	− 9	25	+ 3	3·18	+0·42	230	+ 28	38	+ 5
5. ENGLAND, S.E.	72	13	*	*	*	*	227	+ 2	103	− 10	28	+ 7	3·45	+0·79	242	+ 20	40	+ 3
Western																		
6. SCOTLAND, WEST	69	19	*	*	*	*	183	+ 22	139	− 4	26	− 1	5·57	+0·50	185	− 24	30	− 4
7. ENGLAND, N.W.	68	19	*	*	*	*	212	+ 39	119	− 4	27	+ 2	4·85	+1·25	232	+ 35	38	+ 6
8. ENGLAND, SW	74	12	*	*	*	*	217	− 2	91	− 3	33	+ 8	5·40	+1·41	220	− 7	36	− 1
9. IRELAND, NORTH	69	22	*	*	*	*	206 ‖	+ 17	100 ‖	− 16	32	+ 2	4·92	+0·84	201	+ 4	33	+ 1
10. IRELAND, SOUTH	72	23	*	*	*	*	254	+ 18	77	− 10	37	+10	7·40	+2·95	225	+ 3	37	+ 1
11. ENGLISH CHANNEL	72	30	*	*	*	*	309	+ 51	26	− 4	33	+ 6	4·74	+1·44	262	− 7	43	− 1

THE YEAR.—Aggregates, &c., for the Period of 16 Weeks, January 3rd to April 24th, 1909.

0. SCOTLAND, NORTH	63	13	*	*	*	*	171	− 7	480	− 35	75	− 4	12·45	−4·65	273	+ 1	24	0
Eastern																		
1. SCOTLAND, EAST	69	1	*	*	*	*	184	− 41	616	+ 40	62	0	10·58	+2·21	298	− 27	26	− 2
2. ENGLAND, N.E.	70	14	*	*	*	*	242	0	548	+ 94	54	− 4	7·31	+1·24	371	+ 25	32	+ 2
3. ENGLAND, EAST	71	12	*	*	*	*	273	− 29	531	+ 32	56	− 1	5·06	−0·76	424	+ 61	36	+ 5
4. MIDLAND COUNTIES	73	8	*	*	*		298	− 26	601	+100	50	− 5	6·11	−0·83	374	+ 52	32	+ 5
5. ENGLAND, S.E.	72	0	*	*	*	*	291	− 52	472	+100	53	0	6·40	−0·71	430	+ 74	36	+ 6
Western																		
6. SCOTLAND, WEST	69	11	*	*	*	*	237	− 13	414	+ 9	61	− 6	13·66	−0·26	299	− 17	26	− 1
7. ENGLAND, N.W.	68	10	*	*	*	*	270	+ 3	443	+ 69	58	− 3	9·55	+0·28	393	+ 83	34	+ 7
8. ENGLAND, S.W.	74	7	*	*	*	*	301	− 69	385	+ 92	61	0	9·31	−1·68	409	+ 47	35	+ 4
9 IRELAND, NORTH	69	14	*	*	*	*	324 ‖	+ 10	299 ‖	− 34	75	+ 3	11·17	+0·56	310	− 5	27	0
10. IRELAND, SOUTH	72	15	*	*	*	*	422	0	254	+ 2	74	+ 9	12·25	+0·25	362	+ 5	31	0
11. ENGLISH CHANNEL	72	25	*	*	*	*	484	+ 7	151	+ 42	63	− 5	8·90	−0·31	477	+ 40	40	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

‖ The corresponding figures for previous weeks of the year revised—*see* Correction Table later.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked 𝔐 is supplied by the Royal Meteorological Society, and that for Stations marked 𝔖 is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				Names of Stations.
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
6. SCOTLAND, N.	*p Balta Sound* S	*53*	*18th*	*34*	*18th*	*48·3*	*38·1*	*43·0*	—	*23*	*11*	*3*	*0·36*	—	*34·1*	—	*33*	—	*Balta Sound.*
	a Sumburgh Head ..	51	19th	38	18, 19, 21st	47·6	39·1	43·2	+ 1·7	21	8	3	0·27	- 0·22	32·4	- 2·9	32	- 3	Deerness.
	a Stornoway	55	22nd	41	24th	52·9	42·4	47·4	+ 4·0	38	0	6	0·53	- 0·13	35·9	- 1·8	36	- 2	Stornoway.
	a Castlebay, Barra Isl.	*51*	*21, 23, 24th*	*43*	*18th, 21st*	*50·1*	*44·1*	*47·0*	+ *1·1*	*35*	*0*	*5*	*0·42*	—	*36·8*	—	*37*	—	*Castlebay.*
	a Wick	56	18th, 24th	33	24th	52·9	39·4	45·8	+ 2·5	38	7	4	0·68	+ 0·24	*	*	*	*	
	p Strathpeffer	59	23rd	33	19th	55·9	39·4	47·3	+ 3·6	48	7	5	0·14	- 0·27	34·2	- 0·2	34	0	Strathpeffer.
	p Glencarron .. S	59	19th	30	24th	54·4	37·9	45·8	+ 3·3	44	11	?6	0·76	- 0·45	*	*	*	*	
	p Fort Augustus S	58	19th	33	21st	54·2	40·0	46·8	+ 3·1	42	6	5	0·45	- 0·07	28·3	+ 1·1	28	+ 1	Fort Augustus.
	p Fort William S	58	23rd, 24th	34	21st	55·7	40·7	47·8	+ 2·8	46	4	6	1·17	+ 0·24	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	60	23rd	36	19th, 21st	56·4	38·5	47·3	+ 3·0	50	10	4	0·28	- 0·10	*44·9*	—	*45*	—	*Gordon Castle.*
	a Nairn	61	21st	31	21st	57·6	38·1	47·4	+ 3·5	54	11	3	0·24	- 0·08	53·4	—	53	—	Nairn.
	a Aberdeen	59	18th, 23rd	35	21st	54·4	40·0	46·3	+ 3·1	43	6	4	0·64	+ 0·19	38·7	+ 2·2	39	+ 2	Aberdeen.
	a Balmoral	54	24th	27	19th, 21st	50·9	33·9	42·0	+ 1·4	25	23	6	1·28	+ 0·75	38·8	—	39	—	Crathes S.
	a Crieff .. .. S	59	19th, 23rd	32	21st	55·0	38·4	46·3	+ 1·6	45	10	5	1·20	+ 0·70	42·8	—	43	—	Balruddery
	a Leith	60	22nd, 23rd	36	19th	56·4	41·3	48·5	+ 3·2	48	2	5	0·36	+ 0·08	40·0	+11·0	40	+11	Edinburgh.
	a West Linton .. S	58	19th	28	21st	54·0	37·0	45·1	+ 3·3	43	14	4	1·00	—	*33·3*	—	*34*	—	*West Linton.*
	p Marchmont .. S	60	19th	34	21st	55·6	39·3	47·1	+ 4·3	47	8	3	1·54	+ 1·06	38·9	+ 5·5	39	+ 6	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	60	24th	32	22nd	55·2	38·7	46·6	+ 3·0	46	9	2	0·79	+ 0·36	25·0	—	25	—	Cockle Park.
	a Shields	60	23rd	36	21st	54·1	40·0	46·7	+ 2·6	41	6	4	0·93	+ 0·59	*37·4*	+*11·9*	*38*	+*12*	*Newcastle.*
	p Durham	60	22nd, 23rd	31	21st	56·5	39·8	47·8	+ 4·0	50	6	4	0·98	+ 0·64	41·2	+ 9·7	42	+10	Durham.
	p Rounton .. M	61	19th	32	21st	57·8	39·1	48·0	+ 4·3	54	8	6	1·28	+ 0·90	*	*	*	*	
	p Scarborough .. M	61	23rd	41	19, 21, 22nd	57·4	43·1	49·9	+ 5·4	55	0	3	0·88	+ 0·48	48·4	—	49	—	Scarborough.
	p York	63	19th, 22nd	35	21st	59·3	41·6	50·0	+ 4·0	58	1	4	1·19	+ 0·79	41·4	+ 9·2	42	+ 9	York.
	a Spurn Head	61	23rd	42	21st, 22nd	55·4	44·0	49·4	+ 4·5	52	0	4	0·82	+ 0·56	*	*	*	*	
	a Lincoln	65	19th	37	21st	60·9	41·3	50·6	+ 4·4	63	2	3	1·10	+ 0·76	56·8	—	58	—	Skegness.
	a Fulbeck	67	19th	35	20th	60·9	41·7	50·8	+ 4·8	63	1	3	0·84	+ 0·49	57·0	—	59	—	Rauceby.
3. ENGLAND, E.	*p* Cromer	66	19th, 22nd	40	21st, 22nd	60·2	43·7	51·6	+ 7·3	67	0	4	0·48	—	*57·9*	—	*60*	—	*Lowestoft.*
	p Hillington .. M	66	19th	33	21st	61·4	41·2	50·8	+ 5·1	65	2	4	0·85	+ 0·45	52·1	—	54	—	Cromer.
	a Yarmouth	63	24th	38	21st	57·3	43·3	50·0	+ 5·4	56	0	3	0·36	+ 0·01	59·3	+22·8	61	+24	Hillington.
	a Norwich														63·5	—	66	—	Yarmouth.
	p Geldeston	65	24th	36	21st	61·5	42·9	51·8	+ 6·1	69	0	2	0·32	- 0·04	*	*	*	*	
	p Cambridge	66	19th	32	21st	62·9	41·3	51·6	+ 4·9	70	2	2	0·68	+ 0·33	59·9	+21·9	62	+23	Geldeston.
	a Felixstowe	*60*	*20th*	*36*	*21st*	*56·7*	*44·1*	*50·1*	+ *4·4*	*57*	*0*	*4*	*0·36*	—	67·3	+29·4	69	+30	Cambridge.
	a Clacton-on-Sea ..	59	20th	41	19th	56·1	45·7	50·7	+ 5·1	61	0	4	0·40	—	*56·2*	—	*58*	—	*Felixstowe.*
	a Rothamsted ..	64	19th	32	21st	57·9	40·9	49·0	+ 3·3	54	3	3	0·64	+ 0·27	57·0	—	59	—	Clacton.
	a Shoeburyness ..	*62*	*24th*	*37*	*21st*	*57·6*	*44·9*	*51·0*	+ *5·4*	*63*	*0*	*4*	*0·67*	+ *0·42*	55·6	+20·1	57	+21	Rothamsted.
	p Tottenham	69	19th	37	21st	62·4	44·7	53·1	+ 6·3	78	0	3	0·75	—	*47·0*	—	*49*	—	*Southend.*
4. MIDLAND COUNTIES.	*a* Harrogate	61	19th	34	21st	56·6	40·0	47·9	+ 3·7	50	6	5	1·40	+ 0·97	48·1	—	50	—	Tottenham.
	a Bawtry	65	19th	30	21st	62·3	39·7	50·5	+ 4·4	69	6	3	0·85	+ 0·52	48·2	—	49	—	Harrogate.
	p Buxton .. M	*60*	*19th*	*30*	*21st*	*56·6*	*37·7*	*46·7*	+ *4·0*	*51*	*12*	*5*	*1·24*	+ *0·56*	46·7	+15·5	48	+16	Worksop.
	a Nottingham ..	65	19th	30	21st	59·7	38·9	48·8	+ 2·8	61	9	4	0·67	+ 0·31	*55·8*	—	*57*	—	*Buxton.*
	p Birmingham, Edgbsn	64	12th	39	19th, 21st	59·4	41·7	50·1	+ 4·2	58	1	3	0·79	+ 0·37	53·2	—	55	—	Nottingham.
	a Raunds .. M	67	19th	31	21st	62·2	39·5	50·3	+ 4·6	69	7	3	0·86	—	49·1	—	51	—	Birmingham.
	a Oxford	66	19th	33	21st	61·0	42·3	51·2	+ 4·3	64	0	3	0·60	+ 0·26	*	*	*	*	
	a Cheadle .. M	62	19th	31	21st	57·9	38·9	47·9	+ 3·0	54	9	5	1·12	+ 0·66	47·7	+12·0	49	+12	Oxford.
	p Shrewsbury	63	19th	32	21st	59·3	40·1	49·2	+ 2·2	58	5	4	0·68	—	49·8	—	51	—	Sheffield.
	a Hereford .. M	63	19th	30	21st	60·6	41·0	50·3	+ 3·4	62	3	4	1·20	+ 0·80	*	*	*	*	
	a Cirencester	63	19th	32	19th, 21st	58·8	40·2	49·1	+ 3·7	57	5	4	1·04	+ 0·63	43·6	+ 6·3	45	+ 7	Cirencester.
	a Bath	65	19th	33	19th	59·4	40·7	49·6	+ 2·6	59	4	5	1·01	+ 0·56	54·1	—	56	—	Bath.
5. ENGLAND, S.E.	*p* Kew	67	19th	37	21st	61·1	44·7	52·5	+ 5·3	74	0	3	0·70	+ 0·37	*53·0*	—	*55*	—	*Ramsgate.*
	a Marlborough	64	19th	27	21st	59·2	39·5	48·9	+ 3·2	59	7	4	0·64	+ 0·19	53·5	+18·1	55	+19	Kew.
	a Margate	62	19, 22, 24th	41	21st	60·3	45·3	52·4	+ 5·6	73	0	4	0·71	+ 0·41	38·8	+ 5·3	40	+ 6	Marlborough.
	a Wisley, Surrey ..	67	19th	33	21st	60·3	42·6	51·0	+ 3·0	63	0	3	0·99	—	51·1	+14·3	53	+15	Margate.
	a Swarraton .. M	65	19th	36	21st	59·4	42·3	50·4	+ 4·4	59	0	5	0·86	+ 0·42	52·9	—	55	—	Wisley.
	a Tunbridge Wells M	65	19th	36	19th	59·4	42·6	50·6	+ 4·4	60	0	5	1·06	+ 0·68	41·5	—	43	—	Worthing.
	a Dungeness	55	23rd, 24th	36	21st	53·7	42·6	47·9	+ 1·6	41	0	5	1·46	+ 1·16	53·1	+14·9	55	+15	Tunbridge Wells.
	p Hastings	62	19th	39	19th	55·3	44·9	49·9	+ 3·1	55	0	6	1·70	+ 1·33	46·3	—	48	—	Littlestone.
	p Southampton ..	61	19th	37	21st	58·7	45·1	51·6	+ 2·9	67	0	3	0·69	+ 0·27	*46·3*	+ *5·2*	*48*	+ *5*	*Hastings.*
	a Ventnor	56	22nd, 24th	39	19th	54·4	44·6	49·3	+ 1·1	51	0	5	0·65	+ 0·26	42·6	+ 3·0	44	+ 3	Southampton.
															36·7	- 6·1	38	- 6	Ventnor.
LONDON	*a Westminster* ..	*66*	*19th*	*39*	*21st*	*61·0*	*45·1*	*52·7*	+ *5·4*	*75*	*0*	*3*	*0·90*	+ *0·58*	40·1	- 0·7	41·3	- 1	Eastbourne.
	a Greenwich	*69*	*19th*	*34*	*21st*	*64·0*	*43·1*	*53·1*	+ *5·8*	*78*	*0*	*3*	*0·71*	+ *0·39*	*47·0*	+*19·8*	*49*	+*21*	*Westminster.*
															53·4	+*18·6*	*55*	+*19*	*Greenwich.*
6.	*p* Laudale	58	23rd	38	21st	55·4	42·5	48·6	+ 3·1	46	0	6	1·05	+ 0·09	*	*	*	*	
	a Poltalloch .. S	56	19, 23, 24th	32	21st	55·1	39·3	46·8	+ 1·6	45	8	4	0·58	- 0·01	*	*	*	*	
	p Glasgow	58	19th, 23rd	38	21st	55·5	42·5	48·7	+ 3·8	47	0	4	0·84	+ 0·37	26·5	- 3·8	27	- 4	Glasgow.
	a, SCOTLAND. W. .. *p* Rothesay .. S	58	18th	38	20th, 21st	55·7	41·1	48·1	+ 2·6	46	3	4	0·91	+ 0·26	*	*	*	*	
	a Kilmarnock	58	20th	38	21st	55·8	40·4	47·7	+ 2·8	47	4	3	0·87	—	*23·2*	—	*23*	—	*Kilmarnock.*
	a Colmonell .. S	58	23rd	39	21st	54·6	41·9	48·0	+ 2·8	42	0	4	0·66	+ 0·11	*	*	*	*	
	p Dumfries	62	19th	36	21st	57·9	42·3	49·7	+ 4·2	54	0	5	1·51	+ 0·99	*	*	*	*	
	b, ISLE OF MAN .. *p* Cally, Gatehouse S	60	20th	35	21st	53·4	39·6	46·2	+ 1·4	39	7	4	1·38	+ 0·68	*	*	*	*	
	p Douglas	53	20th	41	18th	51·8	42·9	47·1	+ 2·0	36	0	4	1·09	+ 0·51	42·1	- 0·6	43	- 1	Douglas.
															44·7	—	46	—	Hoylake.
7.	*p* Aspatria	61	19th	39	21st	56·6	42·4	49·2	+ 4·8	50	0	4	1·42	+ 0·91	?45·3	—	?46	—	Aspatria.
	p Newton Rigg ..	60	22nd	33	21st	55·5	40·3	47·5	+ 3·8	46	5	4	1·18	+ 0·68	44·0	+ 8·4	45	+ 9	Newton Rigg.
	a, ENGLAND, N.W. .. *p* Stonyhurst ..	60	19th	35	21st	56·5	41·1	48·4	+ 3·7	49	3	4	1·79	+ 1·16	41·1	+ 5·7	42	+ 6	Stonyhurst.
	p Blackpool .. M	61	19th	38	19th, 21st	56·2	42·4	49·0	+ 3·4	49	0	4	1·24	+ 0·81	49·4	+12·6	50	+13	Blackpool.
	p M'nch'ster, Prestwich	62	19th	35	19th, 21st	58·6	40·6	49·2	+ 4·0	56	4	4	1·38	+ 0·88	*44·5*	+*14·5*	*45*	+*15*	*Prestwich.*
	a Liverpool (Bidston)	61	19th	39	21st	57·6	43·1	50·0	+ 4·2	56	0	4	0·98	+ 0·60	*47·5*	—	*49*	—	*Liverpool.*
	a Hawarden Bridge ..	61	19, 22, 24th	37	21st	58·7	43·7	50·8	+ 3·6	62	0	4	0·80	+ 0·50	*51·4*	+*12·7*	*53*	+*13*	*Southport.*
															48·6	—	*50*	—	*Rhyl.*
	b, NORTH WALES .. *p* Llandudno .. M	63	19th	40	21st	57·1	44·4	50·5	+ 3·7	60	0	4	1·02	+ 0·61	48·3	+11·3	49	+12	Llandudno.
	a Holyhead	61	19th, 21st	42	21st	55·3	43·9	49·3	+ 3·1	51	0	4	0·77	+ 0·31	47·2	—	49	—	Aberdovey.
	p Bettws-y-Coed ..	63	19th	35	21st	57·9	42·4	49·8	+ 3·4	55	0	4	1·37	—	44·8	—	46	—	Bettws-y-Coed.
															42·8	—	44	—	Aberystwyth.
8.	*a*, SOUTH WALES .. *a* Llangammarch Wells	59	19th, 21st	28	21st	56·3	40·6	48·1	+ 3·3	49	4	6	1·51	—	44·5	—	46	—	Llangammarch Wells.
	a Pembroke	55	21st	42	19th, 20th	51·4	44·1	47·6	+ 1·3	39	0	6	0·88	+ 0·42	52·1	+10·3	54	+11	Pembroke.
	a Cardiff	61	19th	35	21st	57·4	42·6	49·6	+ 1·4	53	0	3	1·33	+ 0·76	*40·5*	—	*42*	—	*Cardiff.*
	a Clifton	62	19th	39	21st	58·0	44·8	51·1	+ 3·3	64	0	4	1·90	+ 1·38	*47·3*	+ *3·9*	*49*	+ *4*	*Tenby.*
	a Shaftesbury .. M	60	19th	35	19th	55·6	42·5	48·7	+ 3·0	47	0	3	0·68	+ 0·15	*41·0*	—	*43*	—	*Clifton.*
	a Arlington	57	18th, 21st	38	21st	54·9	43·6	49·0	+ 3·3	49	0	5	1·28	+ 0·60	*	*	*	*	
	b, ENGLAND, S.W. .. *a* Cullompton .. M	61	23rd	34	21st	58·1	43·5	50·5	+ 3·4	60	0	5	1·48	+ 0·97	49·3	+ 9·0	51	+ 9	Newquay.
	a Portland Bill ..	54	23rd	41	19th	51·3	45·0	48·0	+ 0·7	42	0	6	0·73	—	36·1	- 0·3	37	0	Cullompton.
	p Plymouth	59	21st	41	19th	56·0	46·1	50·8	+ 2·7	62	0	4	1·17	+ 0·65	*37·3*	—	*39*	—	*Weymouth.*
	p Falmouth	58	18th	44	19th	54·8	46·3	50·4	+ 2·7	59	0	6	0·84	+ 0·24	31·4	- 8·6	33	- 9	Plymouth.
															46·7	+ 4·1	49	+ 4	Falmouth.
9. IRELAND, N.	*a* Malin Head ..	58	23rd	41	18th, 21st	53·9	42·7	48·0	+ 2·7	42	0	3	0·18	- 0·25	*43·8*	+ *2·1*	*46*	+ *2*	*Torquay.*
	a Blacksod Point ..	57	21st, 22nd	40	21st	54·7	44·4	49·3	+ 2·4	51	0	6	0·78	+ 0·12	*	*	*	*	
	p Markree Castle ..	59	21st, 23rd	39	18th	57·0	41·5	48·9	+ 3·4	50	1	6	0·99	+ 0·41	35·0	+ 0·6	36	+ 1	Markree Castle.
	a Birr Castle	60	21st	38	18th	57·3	42·7	49·7	+ 3·4	54	0	5	0·51	+ 0·03	*36·3*	+ *0·4*	*37*	*0*	*Birr Castle.*
	a, East. *p* Armagh	59	23rd	39	18th	55·1	42·8	48·7	+ 3·0	47	0	7	0·73	+ 0·25	33·0	- 1·1	34	- 1	Armagh.
	b, West. *a* Donaghadee ..	58	23rd	39	18th	52·4	42·7	47·3	+ 1·8	37	0	6	1·16	+ 0·70	*	*	*	*	
10. IRELAND, S.	*p* Dublin, City ..	60	23rd	43	20th	56·5	45·7	50·8	+ 3·0	62	0	5	0·48	+ 0·06	37·9	- 0·5	39	- 1	Phœnix Park.
	a Kilkenny	58	21st, 23rd	36	18th	55·7	42·7	48·9	+ 2·4	48	0	6	0·92	+ 0·42	*	*	*	*	
	a Waterford	57	18th, 21st	34	19th	54·9	43·1	48·7	+ 2·1	47	0	5	1·00	+ 0·43	*	*	*	*	
	a Birr Castle	60	21st	38	18th	57·3	42·7	49·7	+ 3·4	54	0	5	0·51	+ 0·03	36·3	+ 0·4	37	0	Birr Castle.
	a, East. *a* Foynes	60	21st	40	18th, 24th	56·5	43·2	49·5	+ 2·1	53	0	6	1·07	+ 0·52	*	*	*	*	
	b, West. *a* Cahir .. .. M	58	23rd	36	20th	56·0	42·9	49·1	+ 3·1	50	0	5	0·78	—	*	*	*	*	
	a Killarney	61	24th	41	18th	57·1	44·4	50·5	+ 3·3	60	0	7	1·70	+ 0·93	*	*	*	*	
	a Valencia	56	22nd, 24th	42	20th	55·1	44·7	49·7	+ 1·6	54	0	7	1·53	+ 0·64	33·2	- 4·1	34	- 4	Valencia.
	a Roche's Point ..	54	18, 23, 24th	43	18th, 20th	53·1	45·9	49·3	+ 1·5	51	0	6	0·94	+ 0·31	45·4	—	47	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	59	18th, 23rd	47	23rd	57·7	48·1	52·7	+ 4·0	75	0	5	0·45	+ 0·01	51·1	+ 9·0	53	+ 9	Scilly.
	a Jersey, St. Aubins ..	65	19th	44	19th, 21st	58·7	46·9	52·5	+ 3·5	74	0	5	0·42	- 0·06	38·6	- 6·4	40	- 7	St. Heliers.
	a Guernsey	65	19th	43	19th	57·0	47·0	51·8	+ 3·0	69	0	4	0·87	+ 0·32	35·2	- 10·8	37	- 11	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 43·1 hrs.* (+ *2·5 hrs.*), 44 % (+ *3* %); *Bournemouth, 46·8 hrs., 48* %; *Bognor, 39·4 hrs., 41* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound	—	—	44·3	—
	— —				
	— —				
1.	Aberdeen	—	—	—	42·3
	Crathes	2	24	44·3	41·9
	Balmoral	3	23	—	—
	West Linton	? 3	23	—	—
	Marchmont	1	28	45·6	—
2.	Cockle Park	1	30	44·2	43·1
	Durham	1	29	—	—
	York	—	—	46·5	44·0
	Hull	2	29	46·3	43·7
	Lincoln	—	—	47·4	43·7
	Rauceby	0	32	50·0	45·3
3.	Norwich				
	Yarmouth	—	—	50·3	47·7
	Lowestoft	0	34	49·3	46·0
	Cambridge	2	27	50·2	47·0
	Clacton-on-Sea	0	32	49·8	47·6
	Southend	0	39	51·6	—
	Tottenham	0	31	—	46·7
4.	Harrogate	0	31	44·8	43·5
	Huddersfield	2	29	46·2	41·8
	Buxton	3	25	45·9	42·6
	Sheffield	2	29	46·5	42·8
	Nottingham	1	30	48·1	44·4
	Birmingham	2	20	46·2	44·4
	Oxford	2	27	—	—
	Hereford	2	22	—	—
	Cirencester	0	32	—	—
5.	Margate	0	35	49·8	46·6
	Greenwich	3	23	—	—
	Westminster	0	32	—	—
	Kew	1	26	50·5	46·3
	Canterbury	1	30	50·1	47·0
	Tunbridge Wells	2	28	50·4	—
	Wisley	2	26	50·1	47·0
	Worthing	0	31	51·3	47·1
	Portsmouth	0	32	52·0	48·9
6.	Glasgow	0	33	—	—
	Rothesay	—	—	—	44·4
	Colmonel	0	35	—	—
	Dumfries	—	—	—	—
	Douglas	0	35	—	—
7.	Aspatria	1	30	—	—
	Newton Rigg	4	20	46·0	42·9
	Burnley	2	25	45·2	42·3
	Southport	1	30	49·4	46·4
	Manchester City	0	31	46·4	44·5
	Bettws-y-Coed	0	33	46·7	44·9
8.	Llangammarch Wells	2	18	47·5	44·9
	Cardiff	2	27	49·3	46·1
	Clifton	0	33	—	—
	Bath	—	—	50·2	47·9
	Plymouth	0	36	51·3	—
9.	Armagh	0	34	48·0	46·0
	Markree	0	31	—	—
10.	Dublin, Trin. Coll.	0	33	49·2	47·4
11.	Guernsey, Brooklyn	0	35	51·8	49·1

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	44	44	44·0
	Kirkwall	46	44	45·4
	Wick	? 46	? 46	? 46·0
SCOTLAND, E.	Cromarty	44	43	43·7
	Pennan Bay	46	44	44·8
	Aberdeen, Cove Bay	45	43	43·9
ENGLAND, N.E.	Burnmouth, Berwick	41	41	41·0
	Scarborough	48	43	45·3
ENGLAND, E.	Shipwash Lightship	46	42	44·6
	Margate	51	47	49·6
ENGLAND, S.E.	Eastbourne‡	56	47	48·6
SCOTLAND, W.	Lamlash	46	45	45·4
	Ballantrae	46	45	45·5
ENGLAND, N.W.	Port Erin	48	46	46·5
ENGLAND, S.W.	Newquay	50	50	50·0
	Plymouth‡	51	49	49·9
	Salcombe	51	47	48·7
IRELAND, N.W.	Sheephaven	49	48	48·1
	Teelin	50	48	49·6
IRELAND, S.W.	Cleggan	53	48	49·9
	Seafield	53	48	50·5
IRELAND, E.				

‡ Only one observation each day.

APPARATUS USED IN THE KITE ASCENTS ON p. 136.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12
No. of Kites	2	1	1	1	2	2	2	1	1	1	1	2
Area of Surface (sq. metres)	13	7	6·8	4	14	13	13	4	6·9	7	4	13
Length of Wire (metres)	2,200	1,650	2,000	1,220	1,000	2,200	3,400	1,370	2,000	700	1,520	3,400

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual if** it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = [2]73°, Normal boiling point of water = [3]73°). The figure in the "hundreds" place [2] is not printed in the tables. Values at or below the freezing point of water (73°) are printed in heavy type.

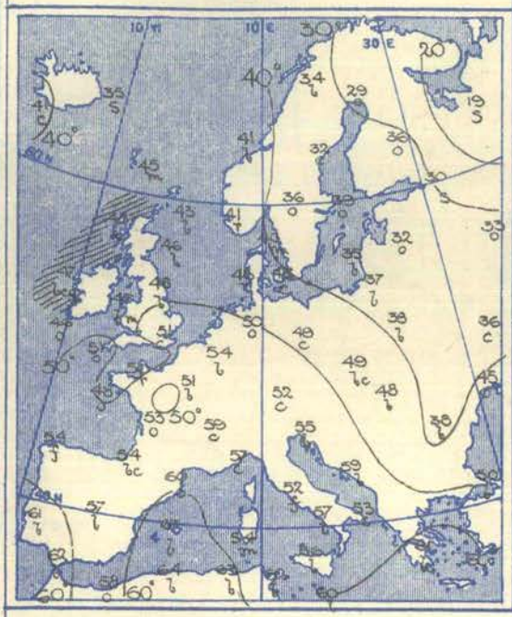
Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7.

See also p. 4.

Sunday, 18th April, 1909.

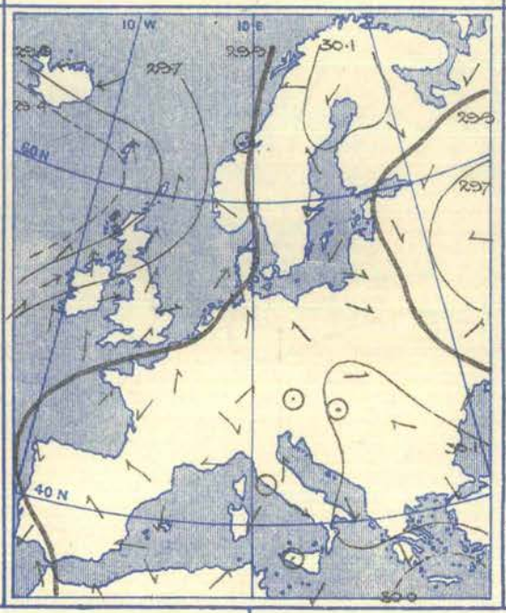
Temperature and Weather.

7 a.m.

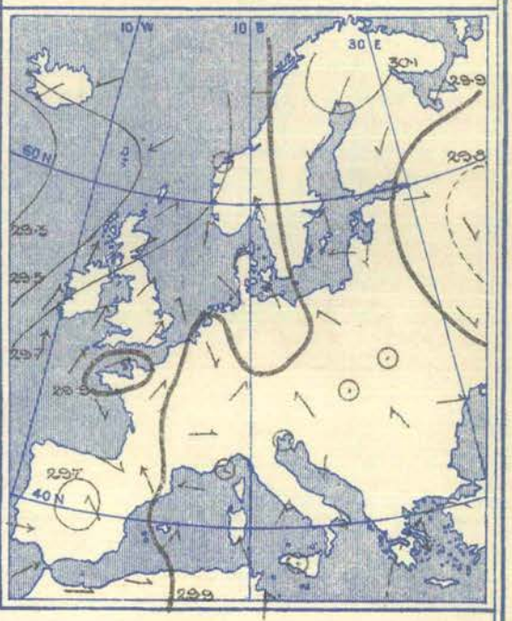


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine and bright over the greater part of our area, but rain falling at Castlebay, Jersey, on the coast of East Anglia, and on the southern and eastern shores of the North Sea, and dull skies, with some snow, prevailing in Russia. Some rain later in various parts of our area, and thunderstorms in some French and Algerian localities.

Temperature changed rather irregularly. Morning readings about 50° at many stations in these Islands, France, and Germany, between 55° and 60° over the greater portion of the Mediterranean region, and above 60° in several places. Below 32° in the north-east of Europe, and as low as 19° at Archangel. Maxima during day about 60° in several parts of England and Scotland, above 70° over a considerable portion of central Europe and France, as well as in northern Italy and Algeria, and above 80° in central Spain.

Wind in morning light or moderate from between West and South-West over the United Kingdom and the nearer regions of the Continent, light from the South-Eastward in Norway, and fresh to high from the Eastward in Iceland. Light variable airs general over the Mediterranean and southern Europe, and a light cyclonic circulation over Russia. No change of importance during day.

Barometer in morning above 30·1 ins. over the Gulf of Bothnia and also over a considerable part of south-eastern Europe; below 29·7 ins. in a large shallow depression over Russia, and below 29·4 ins. in a disturbance over the Atlantic off the north-west of these Islands. Very little change occurring in the general distribution of pressure during day, but a brisk decrease taking place in central Spain.

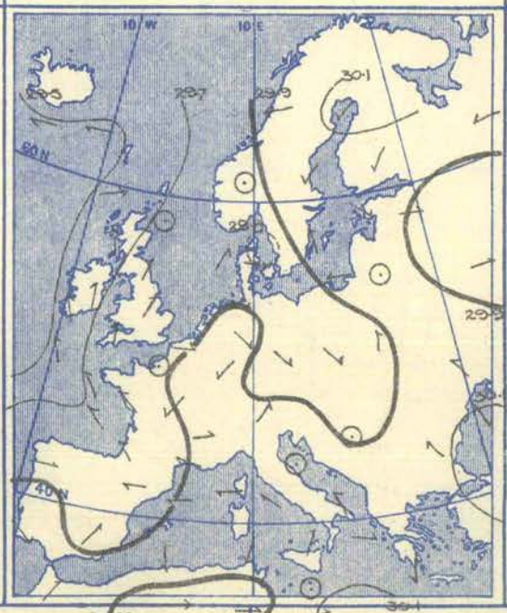
Monday, 19th April, 1909.

Temperature and Weather.

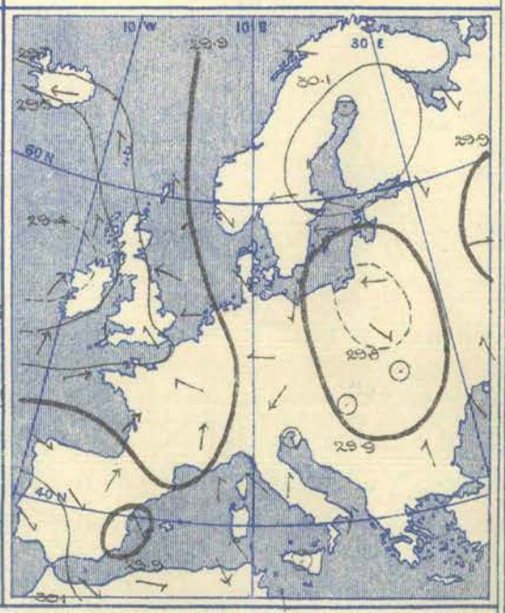
7 a.m.

Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine in Great Britain and over the major portion of the Continent, overcast in Ireland, several parts of central Europe, Russia, and Scandinavia, with rain at Christiansund and some German stations, and snow at St. Petersburg and Archangel. Rain falling at Alicante and Nemours also. Rain experienced later in nearly all parts of these Islands and in almost all countries of the Continent except Italy. About 0·5 in. in the east of England, and 0·66 in. in London. Thunderstorms occurring at Liverpool and on the English Channel, as well as at Paris.

Temperature showing little change generally. Morning readings between 40° and 45° in most parts of Great Britain, about 50° in Ireland, France, and Germany, above 50° very generally in the south of our area, and above 65° in a few places in Algeria. Still below 32° in the north-east, and as low as 18° at Archangel. Rising to 65° or 66° in the inland parts of England later, to between 65° and 75° in various parts of France and Hungary, and to above 80° in Algeria and Tunis. Maxima below 60° in some German and Austrian localities.

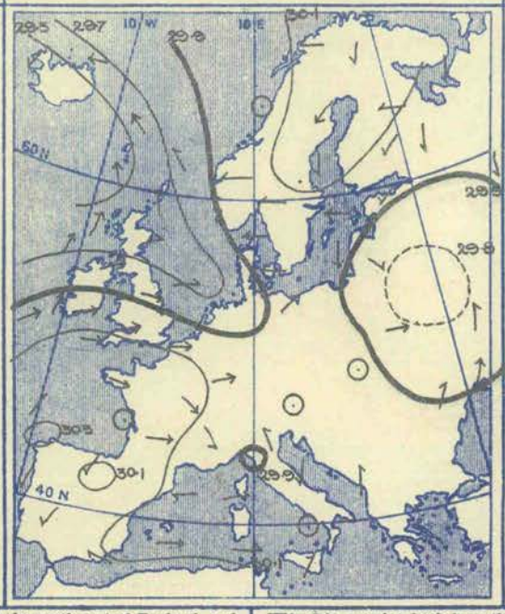
Wind in morning mainly Southerly and of little force in these Islands, and light to strong from the Eastward in Iceland. A light Westerly breeze prevailing in the Spanish Peninsula, and a light South-Easterly breeze on the west coast of France. A feeble cyclonic circulation shown over Russia, and light variable airs over central and southern Europe. Shifting to the Eastward in the south and east of England later and increasing slightly in force; increasing to a fresh breeze from South or South-East on our west and north-west coasts. Veering towards South-West and West over the Bay of Biscay.

Barometer in morning above 30·1 ins. over the Black Sea and also in Lapland. Below 29·9 ins. in shallow depressions over Russia and Algeria, and below 29·5 ins. in a large system on the Atlantic to the westward and north-westward of these Islands. Relatively low in a secondary over the Bay of Biscay. Atlantic disturbance extending over our western districts during day, and the secondary depression moving over France and England from the Bay of Biscay. Pressure increasing over the Icelandic region.

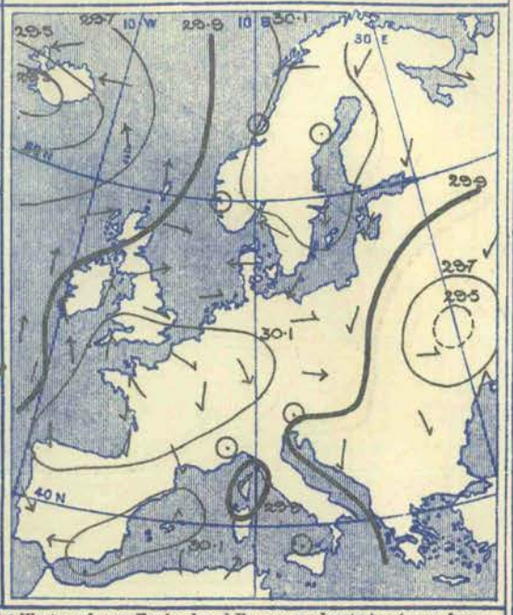
Tuesday, 20th April, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast, with some rain in Scotland and the north-east of England, and also in the Low Countries and south of Russia, and snow falling at St. Petersburg, but fair or fine in almost all other regions. A little rain later in a few parts of these Islands, and heavier amounts in Germany and Austria.

Temperature risen over Great Britain, fallen in nearly all other regions. Morning readings from a little above 60° at some places in the far south to about 50° over much of central Europe, France and England, to below 32° over most of Russia and Scandinavia, and to 17° in central Finland. Rising to about 60° during day in some English localities and in South Germany, and to above 70° in many parts of Italy and the Spanish Peninsula. Frost continuing throughout the day at some places in the north and north-east of our area.

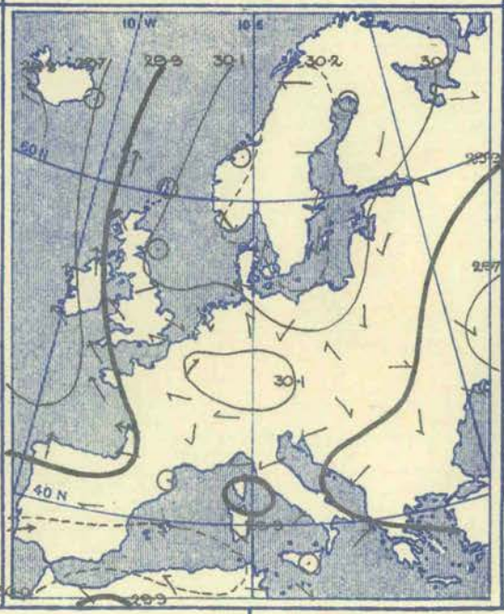
Wind in morning fresh from the Westward over England and France, moderate to strong from the Eastward in Denmark and the south of Norway, and from the South-Eastward over the Icelandic region. A cyclonic circulation of little strength prevailing over Russia and also over the Mediterranean, and light anticyclonic airs over the greater portion of Scandinavia. Wind backing to South in Ireland by evening and to South or South-West over England. Increasing in force from the Eastward in Iceland.

Barometer in morning above 30·2 ins. over the lower part of the Bay of Biscay and its neighbourhood, and above 30·1 ins. over the Gulf of Bothnia region. Below 29·5 ins. in a large depression off the north-west of these Islands, and relatively low in other disturbances in the east and south of our area. Highest pressure becoming transferred to the north of France by evening, and barometer falling to below 29·3 ins. off the south of Iceland. A brisk decrease of pressure taking place during night on our west and south-west coasts and over the Bay of Biscay.

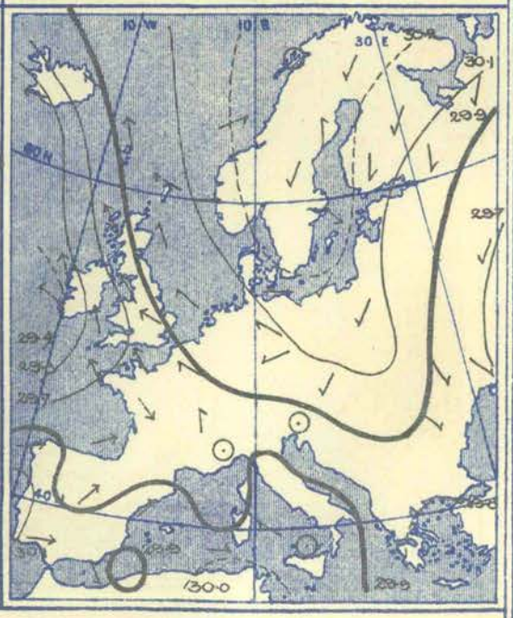
Wednesday, 21st April, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright over the greater portion of our area, but overcast in places, with rain in some localities in central Europe, and snow at Stockholm, St. Petersburg and Archangel. Rain falling later in the west of our Islands and at Moscow, and thunderstorms occurring at Biarritz and Bilbao.

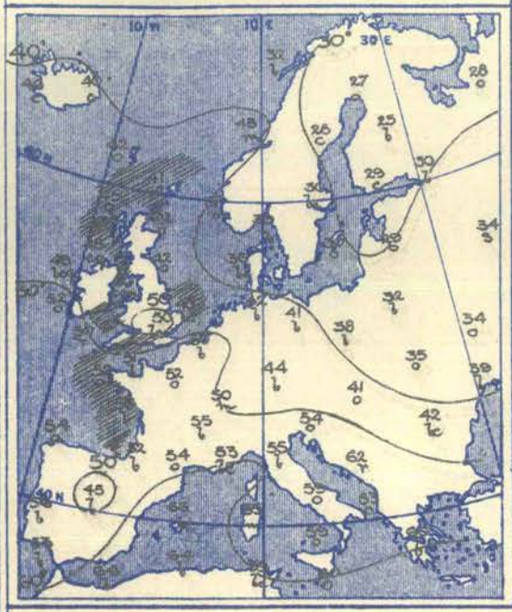
Temperature fallen in most regions. Morning readings ranging from about 60° at some places in the far south to below 40° in central England and over a very large part of eastern Europe, and to below 20° in the north of Russia. Maxima during day about 60° in various British and Irish localities, between 50° and 60° in Germany and most parts of Austria, and above 70° in many French and Italian districts, as well as in Greece and Algeria. Thermometer only rising to 32° at St. Petersburg.

Wind in morning mainly South-Easterly to Easterly in the east and south of Britain, and South-Easterly to Southerly in the west; fresh to strong on the Irish and Welsh coasts and in the Hebrides. Fresh from the South-Westward or Westward in Spain and Portugal, and light from East or South-East over the Bay of Biscay. Light or moderate anticyclonic breezes prevailing over northern and central Europe, and a partial cyclonic circulation over Russia. Little change later in day beyond an increase in force on our western coasts and in Iceland.

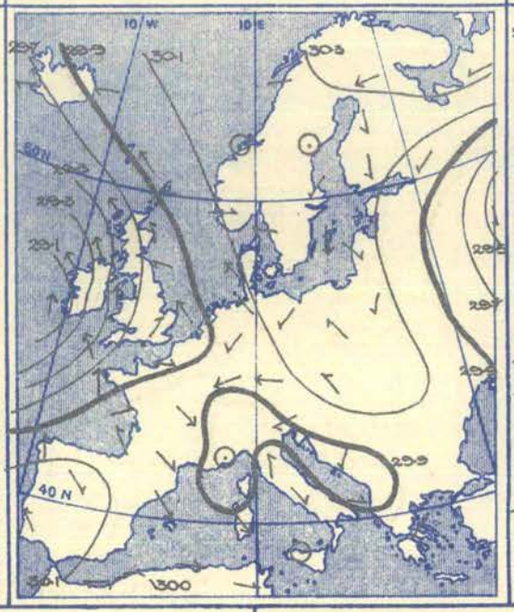
Barometer in morning above 30·2 ins. over nearly the whole of Scandinavia, and lowest over the Atlantic and in the south of Russia. Atlantic disturbance spreading over these Islands and France during day, causing the mercury to fall about 0·25 in. in Ireland, Wales and the south-west of England. Scandinavian high pressure system maintaining its position, and barometer rising somewhat in Iceland.

Thursday, 22nd April, 1909.

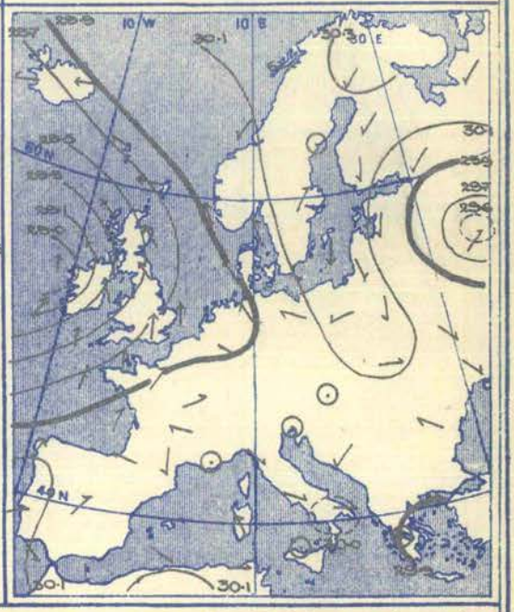
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy or showery in Ireland and the west of Great Britain, and overcast in some other regions, but fair or fine as a whole; rainy at Pesaro, and snow falling at Moscow. Rain later in these Islands and the nearer parts of the Continent, but in moderate or slight amounts generally.

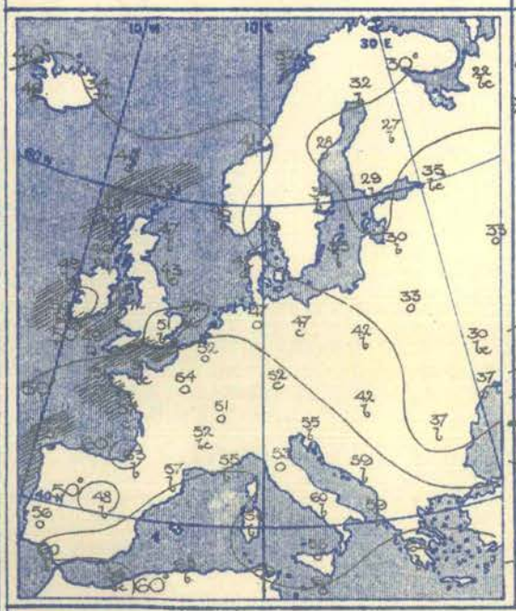
Temperature risen over most of this country and France. Morning readings below 32° in several parts of Russia, Finland and Scandinavia, and below 40° at some Austrian stations; about 50° in the west and south of these Islands and over France and the Low Countries, and 60° or above on several shores of the Mediterranean. Rising subsequently to about 60° in various parts of the United Kingdom, and to 70° or above over a large portion of southern Europe and on the north coast of Africa.

Wind in morning strong to a gale from between South and South-East along our western coasts, and light or moderate from that quarter in the east. An extensive anticyclonic movement prevailing over Scandinavia and the Baltic region, and light to moderate cyclonic breezes over the Mediterranean. Wind increasing in force from between South and East over England, Scotland and the north of France during day, but decreasing somewhat in Ireland. Little other change.

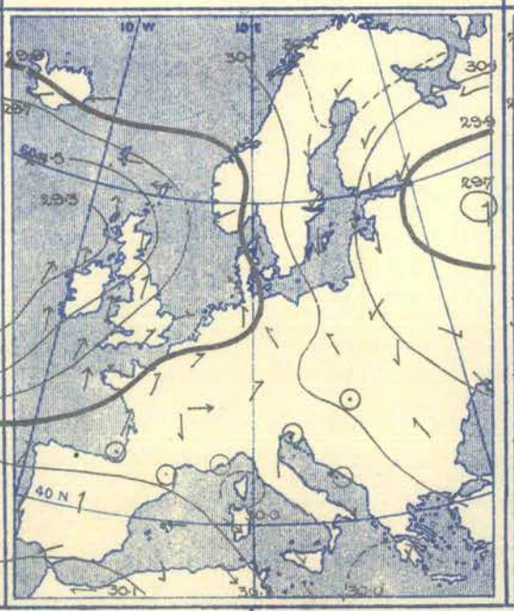
Barometer in morning above 30·2 ins. over most of Scandinavia, and not much lower over the south-west of Spain and Portugal. Below 29·9 ins. in a shallow depression of irregular shape over southern Europe, below 29·5 ins. in a system centred over Russia, and below 29·1 ins. in a deep disturbance off the south-west of Ireland. Not much alteration taking place later in the general distribution of pressure, but Irish depression extending further over these Islands and at the same time moving slowly in a northerly direction.

Friday, 23rd April, 1909.

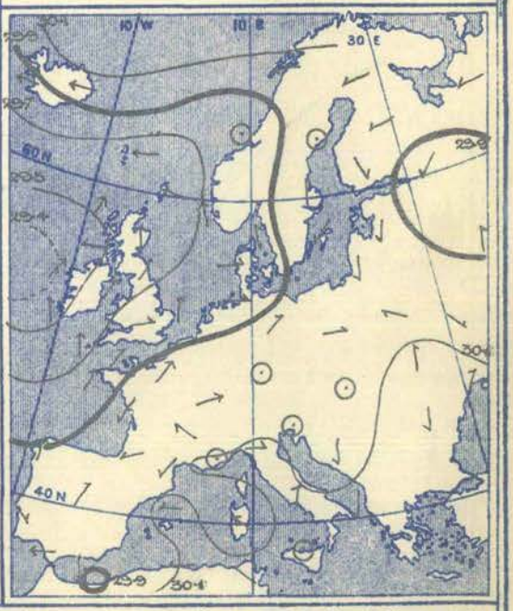
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater portion of our area, but overcast in places, and rainy at Castlebay, Brest, and in some parts of the Low Countries. Showers later over the United Kingdom, and thunderstorms in some English localities; nearly an inch of rain accompanying a thunderstorm at Dungeness and Dover. Some rain falling in Germany and Norway.

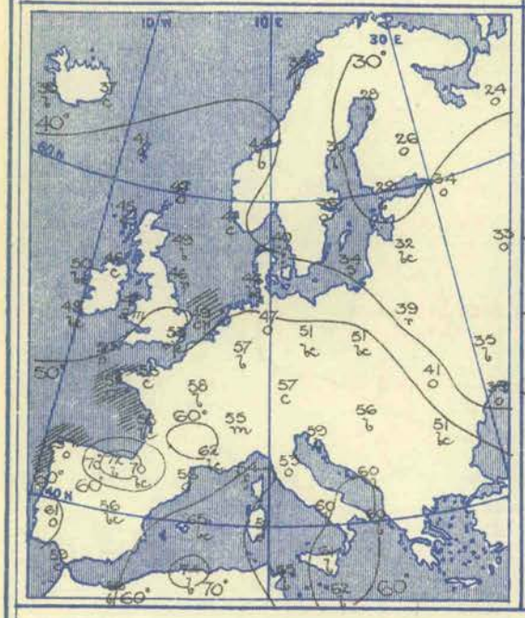
Temperature risen over the Spanish Peninsula, France, and central Europe, and also in most parts of these Islands. Morning readings about 50° at nearly all our own stations, in the north of France, Belgium, and western Germany, above 60° at various stations in southern Europe, and 71° at Bilbao. 32° or below over a large part of Russia, Finland, and Scandinavia, and as low as 22° at Archangel. Maxima during day about 60° in several parts of Britain, Germany, and Austria-Hungary, above 70° in France, Italy, and the south of our area generally, and above 90° at Aumale.

Wind in morning light to moderate from South or South-West over these Islands, France, and the Netherlands, fresh or strong from South-East or East over Denmark and the south of Norway, and from the Eastward in Iceland. Light, variable breezes prevailing over the Mediterranean region, and a cyclonic circulation of little strength over Russia. Not much change later; increasing in force from East over the Icelandic region.

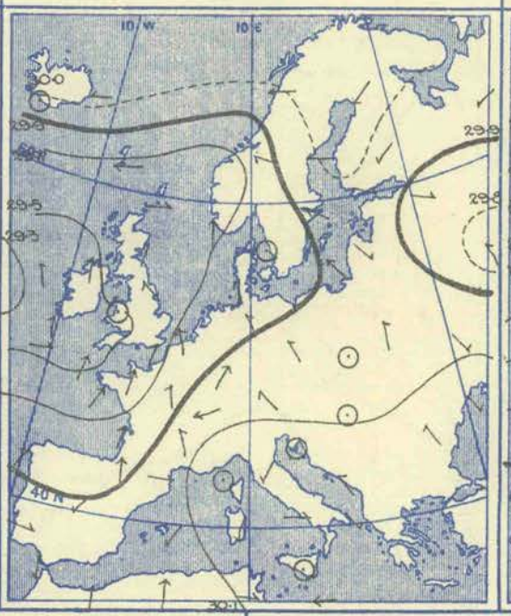
Barometer in morning above 30·2 ins. over Lapland; about 29·7 ins. in a large depression having its minimum over central Russia, and below 29·3 ins. in another system on the Atlantic to the west of these Islands. No change occurring during day in the general distribution of pressure. Barometer rising over the United Kingdom and its neighbourhood—briskly in the north-west—and also in Iceland.

Saturday, 24th April, 1909.

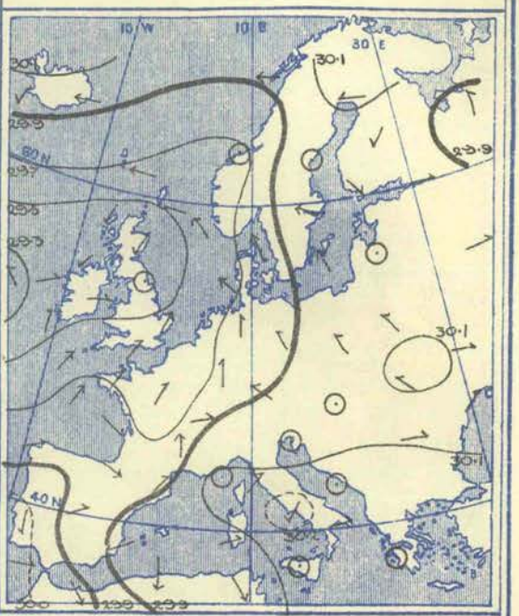
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy or showery in several parts of England and the Hebrides, with thunder and lightning at Dover. Fair to fine and bright in most other regions, but snow falling at some places in the south of Scandinavia and rain at Warsaw. Showers falling later in most parts of these Islands, and thunderstorms occurring in places. More considerable amounts of rain in various localities in France and the Low Countries, with thunderstorms over a rather large area.

Temperature risen in most regions. Morning readings between 60° and 70° over the south of our area generally, and above 70° at Bilbao and Algiers; above 50° over most of central Europe and at many stations in England. Continuing below 32° in the north-east of Europe, and below 40° in the south of Russia. Maxima during day between 55° and 60° in many parts of England; higher than of late in France, Belgium and Austria-Hungary, 72° at Vienna, 78° at Brussels, 80° at Paris, 81° at Biarritz, and 82° at Nancy. Thermometer rising to 91° at Algiers.

Wind in morning light or moderate and mainly Southerly over these Islands and the nearer countries of the Continent, and from some Easterly point over Scandinavia and Iceland. Light breezes from no general direction prevailing over the south and east of our area. Shifting to South-West by evening over England, and to the Eastward in Scotland. Not much change elsewhere; a strong wind from the North-Westward setting in on the Bay of Biscay.

Barometer in morning above 30·1 ins. over all the south-eastern portion of our area, and very little below it in the far north; relatively low in Russia, and below 29·3 ins. in a depression indicated by wireless Atlantic reports to the westward of the 15° meridian. Western depression travelling over our northern districts during day, and a temporary increase of pressure taking place on the west coast of Ireland. A "V-shaped" secondary disturbance appearing over France and the Netherlands.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	April 19th, 9.28 a.m. to 11.20 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	84° 70% 163°, 5	83° 65% 153°, 11	82° 64% 154°, 12	79° 25% 156°, 15				76° 20% 158°, 15	1,400	Gentle breeze from SSE. Fine and bright. Clouds Ci. 9.
2	April 19th, 9.38 a.m. to 10.43 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	87·5° 80% 135°, 7	86° 80% 145°, 9	84° 90% 150°, 13	81·5 70% 160°, 15				81·5° 50% 170°, 14	1,150	Clear.
3	April 20th, 9.58 a.m. to 11.25 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	80° 75% 282°, 10	79° 80% 278°, 11	78° 80% 276°, 12	**72°** 90% 272°, 14	**60°** 97% 276°, 20				1,500	Fresh breeze from WNW. Very gusty. Overcast with bright intervals. Clouds Cu.-N. 8.
4	April 20th, 10.46 a.m. to 11.40 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	85·5° 70% 250°, 11	84° 70% 250°, 16	82° 80% 250°, 18					79·5° 90% 250°, 20	910	Cumulus, not reached.
5	April 21st, 10.0 a.m. to 11.50 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	84·5° 60% 130°, 7	83° 60% 120°, 10 ?	79° 70% —°, 10 ?					77° 80% 95°, 10 ?	700	Overcast. Thin Cu.-Str.; Solar halo, 9.30 a.m.—12.30 p.m.
6	April 21st, 10.6 a.m. to 12.41 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	83° 64% 123°, 7	82° 68% 122°, 8	82° 63% 122°, 9	76° 60% 120°, 13				74° 40% 118°, 12	1,300	Moderate breeze from SE by E. Fine. Clouds Ci. 8.
7	April 22nd, 10.7 a.m. to 2.25 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	84° 85% 174°, 8	83° 85% 170°, 10	82° 85% 168°, 13	78° 80% 165°, 14	75° 50% 165°, 14	74° 25% 165°, 14			2,000	Fresh breeze from S. Fair to overcast and rain later. Clouds Ci., 7 to N. 10.
8	April 23rd, 10.5 a.m. to 11.22 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	88° 70% 180°, 8	87° 70% 190°, 14	83·5° 80% 200°, 17	79·5° 100% 235°, 19		*			1,000	Clouds just reached. Cloud shadows 20–25 m.p.s.
9	April 23rd, 12.37 p.m. to 2.4 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind ..	84° 70% 202°, 6	82° 70% 206°, 8	81° 70% 208°, 10	75° 75% 224°, 17	71° 85% 232°, 18			70° 35% 230°, 18	1,900	Moderate breeze from SSW. Stormy, hail and rain, bright later. Clouds Cu.-N. 3–10 at alt. 1,200 m. Humidity doubtful, instrument sticking.
10	April 24th, 9.50 a.m. to 11.50 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind ..	84° 100% 240°, 6	83° 100% 240°, 10	81° 100% 250°, —					80° 100% 255°,	650	Overcast. Thunder over the Channel. Scud at the descent.
11	April 24th, 10.0 a.m. to 11.10 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	87·5° 70% 190°, 8	86° 70% 190°, 14	83·5° 80% 200°, 16	80° 100% 210°, 18				79.5° 100% 210°, 18	1,160	Passing clouds, 800 m. Very irregular wind.
12	April 24th, 10.20 a.m. to 12.57 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind ..	81° 90% 200°, 5	80° 90% 206°, 7	80° 90% 208°, 9	75° 92% 220°, 17	**72°** 92% 218°, 20	**71°** 85% —, 20	**69°** 75% —, 20	**69°** 75% —, 20	2,530	Low, overcast, dull to heavy showers later. Upper kite hidden by clouds most of the time. Gentle SSW breeze. Clouds Cu.-N. 10.

63, Victoria Street, London, S.W. *April 28th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 17. SEVENTEENTH WEEK, SUNDAY APRIL 25TH TO SATURDAY MAY 1ST, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—Over the Kingdom generally the condition was unsettled and precipitation frequent, but nearly all localities experienced considerable intervals of bright sunshine. Thunderstorms occurred some time during the period in almost all parts of the Kingdom, and on Friday and Saturday showers of hail, sleet, or snow were common.

Temperature was below the average in all districts except England E. and the English Channel, the deficit being very trifling over England, but as much as 4°·4 in Scotland N. The highest of the maxima, which were registered in most places either on April 25th or 26th, ranged from 68° in England E., 67° in England S.E., and 66° in the Midland Counties, to 59° in Scotland E., England N.W., and Ireland N., and to 57° in Scotland N. At the end of the period the maxima were below 50° at many northern and north-eastern stations. The lowest of the minima, which were recorded nearly everywhere on May 1st, varied from 26° in Scotland E. and 27° in Scotland W. to 33° in England E. and Ireland S., and to 41° in the English Channel. The lowest grass readings reported were 19° at Burnley, 20° at Llangammarch Wells, and 21° at Aspatria and West Linton.

Mean Temperature of the Sea.—At every station except Burnmouth the water was warmer than during the corresponding week of last year, the difference amounting to more than 5° at Margate. The means for the week ranged from between 50° and 52° on some parts of the south-west coasts and at Margate to 45° off the north of Scotland, and to 41°·3 at Burnmouth.

Rainfall was more than the average, the excess being large in the east and north-east.

Bright Sunshine exceeded the average except in the north and east of Scotland. The percentage of the possible duration ranged from 67 in the English Channel, 66 in England S., and 61 in England E., to 32 and 30 respectively in Scotland, E. and N.

Barometer and Wind.—Throughout the week the barometer was relatively high both in Iceland and over the Spanish Peninsula, while cyclonic disturbances from the Atlantic either extended or travelled across the United Kingdom. These systems were not as a rule deep, and the wind, which was mainly between West and South, had little force. In the rear of a depression of moderate intensity which passed across Ireland and England to Germany late in the week, however, the barometer rose very briskly, and the wind veered to North-West or North over the whole Kingdom, and increased in force, blowing a strong breeze in many places and a high wind at Holyhead.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 140.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Very deficient	Very deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Deficient	Moderate
	Rainfall ...	Heavy	Very heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Heavy	Heavy	Moderate	Moderate
	Sunshine ...	Moderate	Moderate	Moderate	Very abundant	Abundant	Very abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 8 weeks from Mar. 7th, 1909.	Warmth ...	2 * 2	3 * 5	3 * 2	3 * 0	3 * 2	3 * 2	4 * 1	4 * 2	3 * 3	4 * 2	3 * 3	3 * 1
	Rainfall ...	2 * 4	6 * 1	6 * 1	5 * 1	4 * 1	4 * 1	3 * 2	5 * 2	3 * 1	4 * 2	4 * 2	4 * 1
	Sunshine ...	1 * 1	2 * 3	2 * 3	3 * 4	3 * 3	3 * 3	3 * 3	4 * 2	3 * 2	3 * 2	4 * 2	2 * 4

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	5 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

SEVENTEENTH WEEK—April 25th to May 1st, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	57	29	46·3	34·8	40·3	- 4·4	12	- 21	26	+ 14	6	+ 2	0·78	+0·13	31	- 2	30	- 2
Eastern																		
1. SCOTLAND, EAST	59	26	48·1	36·5	42·0	- 3·1	17	- 21	15	+ 2	7	+ 3	1·10	+0·64	33	- 2	32	- 2
2. ENGLAND, N.E.	63	29	53·4	38·8	45·7	- 0·2	39	+ 2	9	+ 1	7	+ 3	0·66	+0·29	44	+ 8	44	+ 8
3. ENGLAND, EAST	68	33	56·4	41·1	48·4	+ 1·2	49	+ 1	3	- 5	6	+ 2	0·81	+0·42	61	+ 21	61	+21
4. MIDLAND COUNTIES	66	29	55·6	39·6	46·9	- 0·4	47	- 2	8	- 3	6	+ 2	0·63	+0·19	53	+ 17	53	+17
5. ENGLAND, S.E.	67	32	55·5	41·7	48·3	- 0·1	45	- 5	1	- 3	6	+ 2	0·64	+0·18	66	+ 26	66	+26
Western																		
6. SCOTLAND, WEST	60	27	51·9	38·0	44·6	- 2·0	35	- 6	11	+ 4	5	+ 1	0·79	+0·12	51	+ 14	50	+14
7. ENGLAND, N.W.	59	29	52·5	40·3	46·2	- 0·9	37	- 5	5	0	6	+ 2	0·62	+0·12	48	+ 11	47	+11
8. ENGLAND, S.W.	62	32	53·1	42·0	47·3	- 0·8	37	- 10	0	- 3	6	+ 2	0·80	+0·18	52	+ 12	52	+12
9. IRELAND, NORTH	59	31	51·7	39·0	45·0	- 2·0	34	- 8	8	+ 3	6	+ 2	0·72	+0·14	45	+ 11	44	+11
10. IRELAND, SOUTH	62	33	53·6	41·1	47·1	- 1·3	39	- 10	3	0	6	+ 2	0·70	+0·03	46	+ 8	45	+ 8
11. ENGLISH CHANNEL	63	41	55·9	46·3	50·9	+ 1·0	62	+ 7	0	0	5	+ 1	0·56	+0·04	66	+ 19	67	+19

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 8 Weeks, March 7th to May 1st, 1909.

0. SCOTLAND, NORTH	63	20	*	*	*	*	139	- 12	197	0	36	- 1	4·31	-2·48	207	- 10	29	- 1
Eastern																		
1. SCOTLAND, EAST	69	7	*	*	*	*	162	- 33	237	+ 25	38	+ 7	6·83	+2·99	208	- 28	29	- 4
2. ENGLAND, N.E.	70	21	*	*	*	*	246	+ 47	162	+ 1	35	+ 6	5·10	+2·05	269	+ 13	38	+ 2
3. ENGLAND, EAST	71	21	*	*	*	*	288	+ 28	129	- 39	32	+ 5	3·60	+0·76	314	+ 51	44	+ 7
4. MIDLAND COUNTIES	73	17	*	*	*	*	302	+ 33	164	- 12	31	+ 5	3·81	+0·61	283	+ 45	40	+ 6
5. ENGLAND, S.E.	72	13	*	*	*	*	272	- 3	104	- 13	34	+ 9	4·09	+0·97	308	+ 47	43	+ 7
Western																		
6. SCOTLAND, WEST	69	19	*	*	*	*	218	+ 16	150	0	31	0	6·36	+0·62	236	- 10	33	- 1
7. ENGLAND, N.W.	68	19	*	*	*	*	249	+ 34	124	- 4	33	+ 4	5·47	+1·37	280	+ 46	39	+ 7
8. ENGLAND, SW	74	12	*	*	*	*	254	- 12	91	- 6	39	+10	6·20	+1·59	272	+ 6	38	+ 1
9. IRELAND, NORTH	69	22	*	*	*	*	240	+ 9	108	- 13	38	+ 4	5·64	+0·98	246	+ 15	34	+ 2
10. IRELAND, SOUTH	72	23	*	*	*	*	293	+ 8	80	- 10	43	+12	8·10	+2·98	271	+ 12	38	+ 2
11. ENGLISH CHANNEL	72	30	*	*	*	*	371	+ 58	26	- 4	38	+ 7	5·30	+1·48	328	+ 12	46	+ 2

THE YEAR.—Aggregates, &c., for the Period of 17 Weeks, January 3rd to May 1st, 1909.

0. SCOTLAND, NORTH	63	13	*	*	*	*	183	- 28	506	- 21	81	- 2	13·23	-4·52	304	- 1	25	0
Eastern																		
1. SCOTLAND, EAST	69	1	*	*	*	*	201	- 62	631	+ 42	69	+ 3	11·68	+2·85	331	- 29	27	- 2
2. ENGLAND, N.E.	70	14	*	*	*	*	281	+ 2	557	+ 95	61	- 1	7·97	+1·53	415	+ 32	33	+ 3
3. ENGLAND, EAST	71	12	*	*	*	*	323	- 27	534	+ 27	62	+ 1	5·85	-0·36	485	+ 82	38	+ 7
4. MIDLAND COUNTIES	73	8	*	*	*		345	- 28	609	+ 97	56	- 3	6·74	-0·64	427	+ 70	34	+ 6
5. ENGLAND, S.E.	72	0	*	*	*	*	336	- 57	473	+ 97	59	+ 2	7·04	-0·53	496	+101	39	+ 8
Western																		
6. SCOTLAND, WEST	69	11	*	*	*	*	272	- 19	425	+ 13	66	- 5	14·45	-0·14	350	- 2	28	0
7. ENGLAND, N.W.	68	10	*	*	*	*	307	- 2	448	+ 69	64	- 1	10·17	+0·40	441	+ 94	35	+ 8
8. ENGLAND, S.W.	74	7	*	*	*	*	338	- 79	385	+ 89	67	+ 2	10·11	-1·50	461	+ 59	36	+ 5
9 IRELAND, NORTH	69	14	*	*	*	*	358	+ 2	307	- 31	81	+ 5	11·89	+0·70	355	+ 6	28	+ 1
10. IRELAND, SOUTH	72	15	*	*	*	*	461	- 10	257	+ 2	80	+11	12·95	+0·28	408	+ 13	32	+ 1
11. ENGLISH CHANNEL	72	25	*	*	*	*	546	+ 14	151	+ 42	68	- 4	9·46	-0·27	543	+ 59	42	+ 5

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*48*	*27th*	*32*	*29th, 30th*	*44·4*	*35·6*	*39·8*	—	7	*23*	7	*0·78*	—	*39·6*	—	*37*	—	*Balta Sound.*
	a Islands. *a* Sumburgh Head ..	47	27th	30	30th, 1st	43·9	34·0	38·7	− 3·7	5	28	7	0·71	+ 0·24	38·0	+ 1·3	36	+ 1	Deerness.
	a Stornoway	53	26th	32	28th, 30th	46·9	35·7	41·0	− 3·1	14	23	5	0·41	− 0·23	37·4	− 2·0	36	− 2	Stornoway.
	a Castlebay, Barra Isd.	*50*	*26th*	*32*	*1st*	*46·6*	*33·6*	*42·4*	− *4·6*	*17*	*10*	*5*	*0·35*	—	*40·2*	—	*39*	—	*Castlebay.*
	a Wick	57	25th	30	28th, 30th	46·6	34·1	40·1	− 4·1	13	29	6	0·69	+ 0·25	*	*	*	*	*
	p Strathpeffer	54	25th	31	30th, 1st	46·9	35·4	40·9	− 3·8	14	25	7	0·66	+ 0·23	26·2	− 8·8	25	− 9	Strathpeffer.
	p Glencarron .. S	49	25th	29	28th	44·6	33·8	38·9	− 4·8	7	28	7	1·56	+ 0·41	*	*	*	*	*
	p Fort Augustus S	52	25th	30	1st	46·6	34·8	40·4	− 4·5	13	26	6	0·55	+ 0·04	23·0	− 5·2	22	− 5	Fort Augustus.
	p Fort William S	54	25th	30	1st	48·5	35·8	41·9	− 4·1	18	25	5	0·85	− 0·03	*	*	*	*	*
1. SCOTLAND, E.	*p* Gordon Castle S	53	25th	30	30th	45·7	35·4	40·3	− 4·8	10	24	7	1·35	+ 0·98	*25·4*	—	*24*	—	*Gordon Castle.*
	a Nairn	51	25th	32	30th, 1st	45·6	36·1	40·6	− 4·4	10	21	7	1·05	+ 0·70	24·9	—	24	—	Nairn.
	a Aberdeen	55	25th	32	30th	46·7	37·7	42·0	− 2·8	13	12	7	1·25	+ 0·79	34·2	− 4·0	33	− 4	Aberdeen.
	a Balmoral .. S	52	25th	29	28th, 1st	46·3	35·6	40·7	− 1·1	12	24	7	1·02	+ 0·50	26·7	—	26	—	Crathes S.
	p Crieff .. .. S	58	25th	31	30th, 1st	49·0	35·6	42·0	− 4·1	20	18	5	1·24	+ 0·74	35·5	—	35	—	Balruddery
	a Leith	59	25th	33	1st	51·6	39·7	45·4	− 0·9	33	6	7	1·10	+ 0·79	35·4	+ 4·4	35	+ 4	Edinburgh.
	a West Linton .. S	56	25th	26	1st	49·1	34·9	41·7	− 1·6	20	28	6	0·75	—	*30·0*	—	*29*	—	*West Linton.*
	p Marchmont .. S	57	26th	30	30th, 1st	50·4	36·7	43·2	− 0·8	31	15	7	1·01	+ 0·51	41·3	+ 6·3	40	+ 6	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	58	25th	31	1st	50·0	38·2	43·8	− 0·8	29	11	7	1·31	+ 0·88	26·5	—	26	—	Cockle Park.
	a Shields	60	26th	29	1st	52·3	37·6	44·6	− 0·6	37	12	7	1·00	+ 0·66	*33·3*	+ *4·9*	*32*	+ *5*	*Newcastle.*
	a, North. *p* Durham	57	25th, 26th	29	1st	52·5	37·5	44·6	− 0·2	37	13	7	0·80	+ 0·44	38·6	+ 5·1	38	+ 5	Durham.
	p Rounton .. M	59	25th, 27th	30	1st	53·5	37·5	45·1	+ 0·4	41	13	7	0·67	+ 0·33	*	*	*	*	*
	p Scarborough .. M	59	25th, 26th	32	1st	54·9	40·0	47·1	+ 1·5	44	6	6	0·49	+ 0·07	42·1	—	41	—	Scarborough.
	p York	62	26th	32	1st	54·9	40·4	47·3	+ 0·1	44	4	7	0·35	− 0·06	38·7	+ 4·6	38	+ 5	York.
	b, South. *a* Spurn Head ..	63	26th	35	1st	53·1	41·6	47·1	+ 0·8	37	1	5	0·33	+ 0·06	*	*	*	*	*
	a Lincoln														62·2	—	62	—	Skegness.
	a Fulbeck	63	26th	30	30th	55·6	37·6	46·2	− 1·1	48	12	7	0·30	− 0·07	58·0	—	57	—	Rauceby.
	p Cromer	68	26th	34	1st	56·7	40·3	48·1	+ 2·6	50	5	5	0·23	—	*60·1*	—	*60*	—	*Lowestoft.*
	p Hillington .. M	67	26th	34	1st	57·2	40·3	48·3	+ 1·2	51	5	6	0·83	+ 0·42	53·8	—	53	—	Cromer.
	a, North. *a* Yarmouth	63	25th	33	1st	53·1	42·6	47·6	+ 1·7	39	0	6	0·85	+ 0·50	49·9	+10·9	49	+11	Hillington.
	a Norwich														62·1	—	62	—	Yarmouth.
3. ENGLAND, E.	*p* Geldeston	67	26th	33	1st	58·4	40·6	49·1	+ 2·1	56	4	5	0·59	+ 0·22	*	*	*	*	*
	p Cambridge	66	26th	34	1st	57·9	40·3	48·7	+ 0·7	54	5	7	0·95	+ 0·59	54·4	+13·7	54	+14	Geldeston.
	a, East. *a Felixstowe* ..	*60*	*28th*	*36*	*1st*	*55·0*	*42·7*	*48·6*	+ *1·6*	*46*	*0*	*7*	*1·02*	—	63·6	+28·6	69	+29	Cambridge.
	a Cloacton-on-Sea ..	60	28th	36	1st	55·4	43·3	49·1	+ 2·3	50	0	6	1·30	—	*69·6*	—	*70*	—	*Felixstowe.*
	a Rothamsted ..	63	26th	33	1st	55·5	39·0	46·9	− 0·1	47	8	7	0·83	+ 0·45	68·1	—	68	—	Clacton.
	b, South. *a Shoeburyness* ..	*65*	*26th*	*36*	*1st*	*57·0*	*42·9*	*49·6*	+ *0·8*	*53*	*0*	*5*	*0·55*	+ *0·29*	61·4	+23·6	61	+24	Rothamsted.
	p Tottenham	64	26th	36	1st	56·9	42·2	49·2	+ 0·9	50	0	5	0·87	—	*68·1*	—	*68*	—	*Southend.*
															65·5	—	66	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	57	25, 26, 27th	29	1st	52·8	37·4	44·7	− 0·7	38	13	6	0·65	+ 0·21	45·9	—	45	—	Harrogate.
	a Bawtry	63	25th	31	1st	56·6	38·7	47·2	− 0·1	50	9	5	0·22	− 0·13	48·5	+15·6	48	+15	Worksop.
	p Buxton .. M	*56*	*26th*	*29*	*1st*	*52·1*	*37·7*	*44·6*	+ *0·8*	*36*	*12*	*6*	*0·85*	+ *0·18*	*52·1*	—	*52*	—	*Buxton.*
	a Nottingham ..	62	26th	33	1st	55·6	39·4	47·1	− 0·1	47	7	5	0·41	+ 0·04	57·2	—	57	—	Nottingham.
	p Birmingham, Edgbsn	60	25th	32	1st	54·4	39·1	46·4	− 0·8	43	8	7	0·91	+ 0·47	46·3	—	46	—	Birmingham.
	a Raunds .. M	66	26th	31	1st	58·1	38·3	47·7	+ 0·5	55	10	5	0·20	—	*	*	*	*	*
	a Oxford	63	26th	34	30th	57·0	40·4	48·3	+ 0·1	51	4	6	1·24	+ 0·88	61·2	+23·2	61	+23	Oxford.
	a Cheadle .. M	60	27th	30	1st	54·0	36·6	44·9	− 1·0	43	15	7	0·58	+ 0·12	54·0	—	54	—	Sheffield.
	b, West. *p* Shrewsbury ..	61	25th	33	1st	55·4	38·7	46·7	− 1·5	47	9	7	0·81	—	*	*	*	*	*
	a Hereford .. M	60	27th	32	1st	56·2	39·7	47·6	− 0·6	49	6	6	0·59	+ 0·17	*	*	*	*	*
	a Cirencester	62	27th	36	28th, 1st	55·3	38·8	46·7	0·0	46	9	5	0·51	+ 0·08	46·9	+ 7·1	47	+ 7	Cirencester.
	a Bath	61	26th	36	1st	56·0	41·9	48·6	+ 0·1	47	0	6	0·83	+ 0·38	65·3	—	65	—	Bath.
															70·4	—	*70*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	65	26th	36	1st	57·0	41·7	49·0	+ 0·6	50	1	6	0·80	+ 0·46	66·8	+28·8	67	+29	Kew.
	a Marlborough ..	62	26th	32	1st	55·5	38·4	46·5	− 0·1	47	10	6	0·72	+ 0·28	62·2	+26·4	62	+26	Marlborough.
	a Margate	67	26th	38	1st	56·7	43·5	49·8	+ 1·8	55	0	5	0·63	+ 0·32	65·1	+26·4	65	+26	Margate.
	a Wisley, Surrey ..	64	26th	34	1st	55·6	40·9	47·9	− 1·1	46	3	7	0·85	—	62·7	—	63	—	Wisley.
	a Swarraton .. M	63	26th	35	1st	55·5	39·5	47·1	+ 0·2	46	7	6	0·84	+ 0·40	70·0	—	71	—	Worthing.
	a Tunbridge Wells M	64	26th	33	1st	55·3	40·0	47·3	− 0·1	46	6	6	0·58	+ 0·19	64·7	+24·2	65	+24	Tunbridge Wells.
	a Dungeness	58	26th	36	1st	53·3	43·9	48·4	+ 0·9	45	0	6	0·44	+ 0·14	71·0	—	71	—	Littlestone.
	p Hastings	59	26th	35	1st	54·0	42·8	48·1	0·0	43	0	5	0·38	+ 0·01	*63·2*	+ *19·5*	*64*	+ *20*	*Hastings.*
	p Southampton ..	61	26th, 28th	38	1st	56·8	43·0	49·6	− 0·3	53	0	6	0·50	+ 0·06	64·8	+22·7	65	+23	Southampton.
	a Ventnor	58	25th	38	1st	55·0	43·3	48·9	− 0·8	48	0	7	0·65	+ 0·28	63·8	+18·8	64	+19	Ventnor.
															67·0	+23·6	68	+24	Eastbourne.
LONDON	*a Westminster* ..	*64*	*26th*	*35*	*1st*	*57·0*	*43·4*	*49·9*	+ *1·1*	*55*	*0*	*6*	*0·87*	+ *0·54*	*63·9*	+ *33·9*	*64*	+ *34*	*Westminster.*
	a Greenwich	*68*	*26th*	*35*	*1st*	*58·9*	*41·0*	*49·5*	+ *0·8*	*57*	*3*	*6*	*0·77*	+ *0·46*	*64·0*	+ *27·2*	*64*	+ *27*	*Greenwich.*
6.	*p* Laudale	55	25th	32	1st	49·3	36·0	42·3	− 4·3	27	17	5	0·99	+ 0·04	*	*	*	*	*
	a Poltalloch .. S	60	25th	27	1st	51·7	35·4	43·2	− 3·1	36	18	4	1·08	+ 0·49	*	*	*	*	*
	a, SCOTLAND. W. *p* Glasgow	56	25th	33	1st	50·2	39·5	44·6	− 1·8	29	7	4	1·17	+ 0·67	42·8	+10·7	42	+11	Glasgow.
	p Rothesay .. S	59	25th	34	1st	51·9	39·7	45·5	− 1·1	34	6	5	1·33	+ 0·68	*	*	*	*	*
	a Kilmarnock ..	53	25th, 26th	27	1st	50·3	37·6	43·7	− 2·4	30	12	5	0·93	—	*34·2*	—	*34*	—	*Kilmarnock.*
	a Colmonell ..	57	25th	34	28th, 1st	52·3	39·1	45·4	− 1·1	36	8	4	0·38	− 0·17	*	*	*	*	*
	p Dumfries .. S	59	25th	31	1st	55·6	39·4	47·1	+ 0·4	47	7	5	0·41	− 0·11	*	*	*	*	*
	p Cally, Gatehouse S	58	25th	27	1st	54·2	35·3	44·3	− 1·9	44	19	6	0·65	− 0·04	*	*	*	*	*
	b, ISLE OF MAN .. *p* Douglas	52	25th	35	1st	50·2	39·6	44·7	− 1·5	29	7	6	0·17	− 0·42	58·3	+13·5	57	+13	Douglas.
															58·1	—	58	—	Hoylake.
7.	*p* Aspatria	57	26th	29	1st	52·1	37·9	44·7	− 0·8	36	11	5	0·32	− 0·18	45·8	—	45	—	Aspatria.
	p Newton Rigg ..	56	27th	29	1st	52·1	36·8	44·1	− 0·7	37	15	7	0·59	+ 0·07	46·1	+ 8·3	45	+ 8	Newton Rigg.
	p Stonyhurst	56	25th	33	1st	51·4	39·6	45·2	− 0·8	32	7	7	0·97	+ 0·34	47·5	+10·0	47	+10	Stonyhurst.
	a, ENGLAND, N.W. *p* Blackpool .. M	55	25th, 26th	35	30th, 1st	51·5	41·4	46·2	− 0·5	32	2	4	0·54	+ 0·09	59·4	+20·3	59	+20	Blackpool.
	p M'nch'ster, Prestwich	57	25th, 26th	31	1st	53·3	39·4	46·0	− 0·3	39	7	6	0·94	+ 0·43	*46·0*	+ *13·7*	*46*	+ *14*	*Prestwich.*
	a Liverpool (Bidston)	58	25th	36	1st	52·1	42·1	46·9	− 0·3	34	0	5	0·37	− 0·02	*61·9*	—	*61*	—	*Liverpool.*
	a Hawarden Bridge ..	59	25th	36	1st	53·5	41·9	47·4	− 1·1	38	0	6	0·57	+ 0·24	*61·1*	+ *19·7*	*61*	+ *20*	*Southport.*
															52·6	—	*52*	—	*Rhyl.*
	b, NORTH WALES .. *p* Llandudno .. M	58	25th	35	1st	53·4	41·6	47·2	− 0·6	38	1	6	0·57	+ 0·16	49·9	+10·6	49	+11	Llandudno.
	a Holyhead	58	29th	37	1st	53·3	42·6	47·7	+ 0·4	40	0	5	0·38	− 0·09	38·2	—	38	—	Aberdovey.
	p Bettws-y-Coed ..	57	25th	33	1st	52·6	40·1	46·1	− 1·5	37	5	6	0·90	—	36·4	—	36	—	Bettws-y-Coed.
															32·2	—	32	—	Aberystwyth.
8.	*a* Llangammarch Wells	57	25th	32	1st	51·9	38·5	44·9	− 1·0	35	10	6	1·53	—	39·4	—	39	—	Llangammarch Wells.
	a, SOUTH WALES *a* Pembroke	53	27th	39	1st	50·1	43·4	46·6	− 0·7	32	0	7	0·45	0·00	56·7	+12·9	57	+13	Pembroke.
	a Cardiff	59	25th	33	1st	53·4	40·7	46·8	− 2·5	39	4	6	0·91	+ 0·35	*55·8*	—	*56*	—	*Cardiff.*
															50·5	+ *5·6*	*51*	+ *6*	*Tenby.*
	a Clifton	62	26th	37	1st	55·4	42·9	48·9	− 0·2	48	0	6	0·78	+ 0·27	*57·4*	—	*57*	—	*Clifton.*
	a Shaftesbury .. M	58	26th	32	1st	53·1	38·8	45·6	− 1·3	39	9	6	0·43	− 0·08	*	*	*	*	*
	a Arlington	57	25th	37	1st	51·6	41·3	46·2	− 0·3	32	2	6	1·13	+ 0·46	57·5	+14·7	58	+15	Newquay.
	b, ENGLAND, S.W. *a* Cullompton .. M	60	27th	32	1st	55·9	40·0	47·6	− 0·7	48	6	7	1·04	+ 0·53	54·4	+15·9	55	+16	Cullompton.
	a Portland Bill ..	54	25th	40	1st	51·6	45·1	48·2	− 0·2	43	0	6	0·55	—	*64·8*	—	*66*	—	*Weymouth.*
	p Plymouth	62	27th	41	1st	55·0	45·3	49·9	+ 0·5	55	0	6	0·60	+ 0·10	59·2	+16·7	60	+17	Plymouth.
	p Falmouth	58	25th	39	1st	53·4	44·2	48·6	− 0·2	46	0	5	0·59	+ 0·02	62·2	+16·6	63	+17	Falmouth.
															58·9	+ *14·7*	*60*	+ *15*	*Torquay.*
9. IRELAND, N.	*a* Malin Head ..	54	25th, 26th	36	1st	48·6	40·0	44·1	− 2·2	23	6	6	0·84	+ 0·39	*	*	*	*	*
	a, West. *a* Blacksod Point ..	55	25th	38	29th, 1st	50·9	41·0	45·7	− 2·1	30	3	6	0·76	+ 0·11	*	*	*	*	*
	p Markree Castle ..	57	25th	32	29th	52·8	36·9	44·5	− 2·1	39	14	6	0·53	+ 0·05	47·9	+11·3	47	+11	Markree Castle.
	a Birr Castle	59	25th, 26th	34	30th, 1st	54·1	39·6	46·5	− 0·8	42	7	6	0·58	+ 0·08	*46·1*	+ *8·5*	*46*	+ *8*	*Birr Castle.*
	b, East. *p* Armagh	56	25th	31	1st	53·2	37·6	45·0	− 1·7	39	12	6	0·89	+ 0·38	42·7	+ 6·7	42	+ 7	Armagh.
	a Donaghadee	56	25th	34	1st	50·4	38·9	44·4	− 2·2	30	9	5	0·69	+ 0·22	*	*	*	*	*
10. IRELAND, S.	*p* Dublin, City	60	25th, 26th	35	30th, 1st	54·2	40·9	47·2	− 1·6	41	3	6	0·48	+ 0·05	43·8	+ 3·1	43	+ 3	Phœnix Park.
	a, East. *a* Kilkenny	57	25th	33	29th	52·7	39·1	45·6	− 2·1	37	8	6	0·57	+ 0·07	*	*	*	*	*
	a Waterford	57	1st	34	29th	53·7	40·3	46·7	− 1·0	40	5	6	0·50	− 0·03	*	*	*	*	*
	a Birr Castle	59	25th, 26th	34	30th, 1st	54·1	39·6	46·5	− 0·8	42	7	6	0·58	+ 0·08	46·1	+ 8·5	46	+ 8	Birr Castle.
	a Foynes	60	26th	38	29, 30, 1st	53·9	40·9	47·1	− 1·3	40	3	7	0·42	− 0·12	*	*	*	*	*
	b, West. *a* Cahir .. .. M	56	25th, 26th	35	29th	53·0	40·5	46·5	− 0·8	38	4	6	1·14	—	*	*	*	*	*
	a Killarney	62	26th	37	30th	55·4	41·4	48·1	− 0·2	45	2	6	1·02	+ 0·27	*	*	*	*	*
	a Valencia	56	26th	40	1st	52·9	43·7	48·1	− 0·9	43	0	6	0·82	− 0·02	50·6	+10·9	51	+11	Valencia.
	a Roche's Point ..	54	25th, 27th	40	30th	52·3	43·6	47·7	− 1·0	40	0	6	0·75	+ 0·13	43·0	—	43	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	58	27th, 28th	46	30th	56·4	47·4	51·7	+ 2·2	68	0	5	0·62	+ 0·19	70·2	+25·5	71	+26	Scilly.
	a Jersey, St. Aubins ..	63	26th	41	1st	55·7	45·6	50·4	+ 0·3	59	0	4	0·40	− 0·08	63·1	+15·5	64	+16	St. Heliers.
	a Guernsey	62	26th	42	1st	55·7	45·8	50·5	+ 0·7	60	0	5	0·67	+ 0·14	65·0	+15·4	66	+16	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 65·2 hrs. (+22·1 hrs.), 62 % (+22 %); Bournemouth, 66·6 hrs., 67 %; Bognor, hrs., %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	42·9	—
	— —				
	— —				
1.	Aberdeen	—	—	—	43·3
	Crathes	3	24	45·3	43·2
	Balmoral	3	26	—	—
	West Linton	3	21	—	—
	Marchmont	2	27	46·6	—
2.	Cockle Park	2	29	44·1	44·2
	Durham	2	28	—	—
	York	—	—	48·0	45·5
	Hull	1	28	47·3	44·7
	Lincoln				
	Rauceby	1	30	50·6	46·5
3.	Norwich				
	Yarmouth	—	—	52·3	49·1
	Lowestoft	0	31	50·6	47·5
	Cambridge	2	29	51·0	48·6
	Clacton-on-Sea	0	31	50·8	49·4
	Southend	0	32	51·7	—
	Tottenham	0	33	—	48·2
4.	Harrogate	2	26	45·5	44·9
	Huddersfield	1	27	47·6	43·3
	Buxton	2	25	47·3	43·7
	Sheffield	1	27	48·2	44·2
	Nottingham	1	27	48·7	46·0
	Birmingham	2	26	45·6	45·1
	Oxford	0	—	—	—
	Hereford	4	23	—	—
	Cirencester	0	33	—	—
5.	Margate	0	37	50·9	48·1
	Greenwich	2	29	—	—
	Westminster	1	30	—	—
	Kew	2	29	50·8	47·9
	Canterbury	1	30	50·7	48·7
	Tunbridge Wells	1	30	51·4	—
	Wisley	0	31	50·1	48·4
	Worthing	0	33	52·2	48·6
	Portsmouth	0	36	52·4	50·2
6.	Glasgow	2	26	—	—
	Rothesay	—	—	—	45·6
	Colmonel	0	31	—	—
	Dumfries	—	—	—	—
	Douglas	1	30	—	—
7.	Aspatria	2	21	—	—
	Newton Rigg	3	22	46·7	44·0
	Burnley	2	19	45·8	43·6
	Southport	2	28	51·3	48·5
	Manchester City	1	27	46·8	45·8
	Bettws-y-Coed	0	32	47·4	46·0
8.	Llangammarch Wells	4	20	47·2	46·0
	Cardiff	2	27	49·7	47·3
	Clifton	0	32	—	—
	Bath	—	—	51·1	49·2
	Plymouth	0	35	52·0	—
9.	Armagh	2	26	48·6	46·9
	Markree	3	27	—	—
10.	Dublin, Trin. Coll.	3	29	48·7	48·2
11.	Guernsey, Brooklyn	0	34	51·6	51·0 (3 ft.)

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	45	45	45·0
	Kirkwall	47	44	45·0
	Wick	47	47	47·0
SCOTLAND, E.	Cromarty	45	40	43·1
	Pennan Bay	46	40	44·3
	Aberdeen, Cove Bay	45	42	44·1
ENGLAND, N.E.	Burnmouth, Berwick	42	40	41·3
	Scarborough	48	42	45·3
ENGLAND, E.	Shipwash Lightship	49	43	47·1
	Margate	54	50	51·2
ENGLAND, S.E.	Eastbourne‡	51	49	50·0
SCOTLAND, W.	Lamlash	47	44	45·8
	Ballantrae	48	46	46·9
ENGLAND, N.W.	Port Erin	51	50	50·9
ENGLAND, S.W.	Newquay	51	49	50·3
	Plymouth‡	53	49	50·8
	Salcombe	51	46	49·4
IRELAND, N.W.	Sheephaven	53	46	49·4
	Teelin	52	47	50·0
IRELAND, S.W.	Cleggan	54	49	51·6
	Seafield			
IRELAND, E.				

‡ Only one observation each day.

VII.—*Continued* from p. 144.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
12	May 1st, 9.47 a.m. to 1.40 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity Wind	75° 62% 337°, 6	73° 60% 324°, 10	72° 60% 318°, 13	67° 65% 320°, 14	65° 70% 322°, 18	62° 75% 325°, 20	60° 78% 326°, 21	58° 82% 326°, 22	2,650	Weather overcast, snow later, wind gusty. Clouds Cu. 7–10 at 2,400 m. 3 kites on 2 wires.
13	May 1st, 9.55 a.m. to 10.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity Wind	80° 70% 315°, 8	79° 70% 315°, 14	77·5° 85% 315°, 16	73·5° 95% 320°, 17				72° 100% 325°, 17	1,300	Cumulus, just reached.
14	May 1st, 10.10 a.m. to 12.0 noon.	Brighton, 115 m.	Temperature Humidity Wind	75° 80% 360°, 10	74° 80% 360°, —	71° 85% 350°, —	360°, —				68° 90% 360°, —	800	Heavy snow squalls at intervals. Clouds at 700 m., temp. fell 4° during ascent. Wind varying from 10 to 20 m.p.s. without reference to height.

APPARATUS USED IN THE KITE ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
No. of Kites	2	1	2	1	1	1	2	1	2	2	1	3	1	1
Area of Surface (metres 3)	9	7	13	6·9	3·2	4	9	4	13	13	4	21	4	7
Length of Wire (metres)	1,800	2,100	3,800	2,900	2,000	1,220	1,800	1,070	1,800	3,100	1,500	3,400	1,880	1,500

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

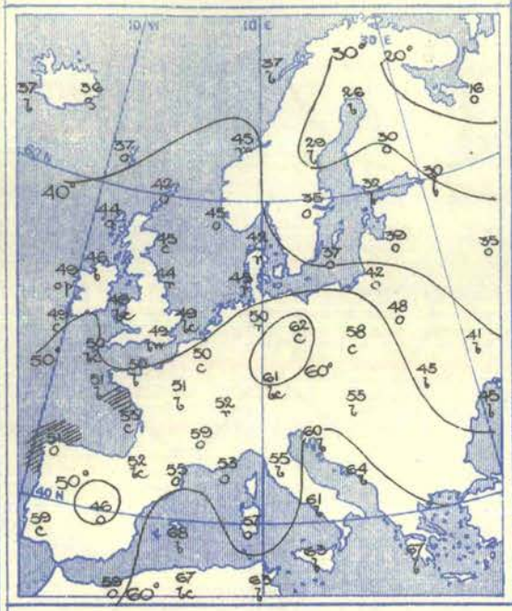
ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = [2]73°, Normal boiling point of water = [3]73°). The figure in the "hundreds" place [2] is not printed in the tables. Values at or below the freezing point of water (73°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Sunday, 25th April, 1909.

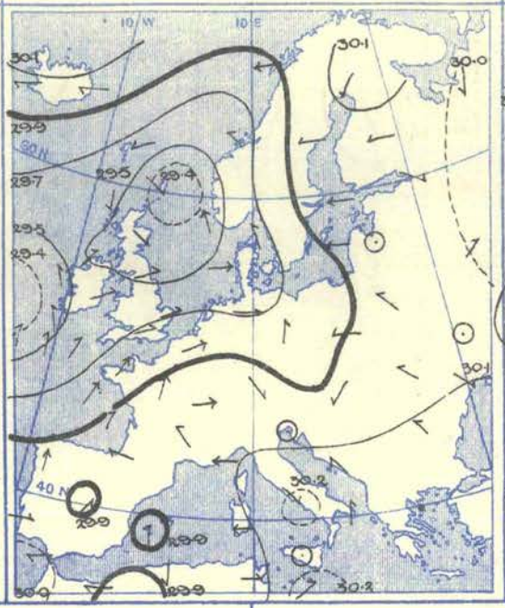
Temperature and Weather.

7 a.m.

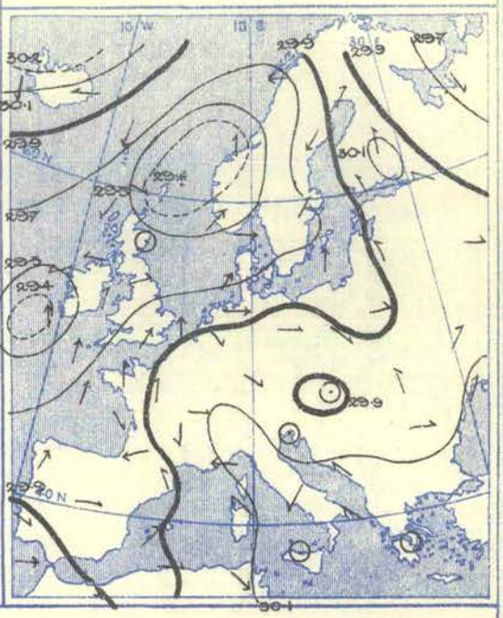


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of our area, but overcast in places, and rainy over the North Sea region, as well as at Karlstad. Showers later in almost all parts of these Islands, with thunder and lightning in places. Rain experienced in the east of France, and also in Germany, Scandinavia, and Russia. Largest measurement 1·0 in. at Besançon.

Temperature changed irregularly; fallen over France and the Peninsula. Morning readings ranging from 67° at Algiers and Patras and above 60° at some other extreme southern stations, and also in some German localities, to below 50° over these Islands, to below 32° in the north-east of our area, and to below 20° at Archangel. Rising subsequently to about 60° in many parts of the United Kingdom and to 70° or above over a large portion of central Europe. Maxima above 75° at several places in the south, and as high as 86° at La Calle.

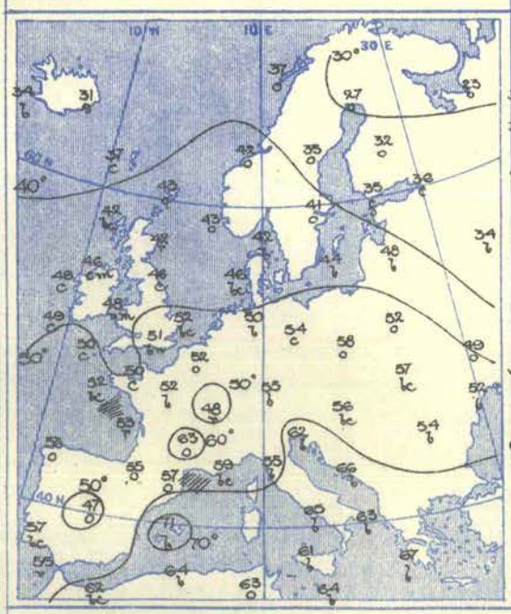
Wind in morning light or moderate from the Southward on our west and south-west coasts, light to fresh from the South-Westward over the greater part of England, and light to fresh from some Easterly point in most parts of Scandinavia and Iceland. Light and rather variable airs prevailing in the east and south of Europe. No general change later; backing over England and Ireland.

Barometer in morning above 30·1 ins. in the extreme south-east and north-west of our area; below 29·4 ins. in a depression between Shetland and Norway, and relatively low in another system to the westward of Ireland. Scarcely any change occurring in the general distribution of pressure during day. A depression beginning to encroach on Ireland, but fall of barometer very slight. Northern disturbance moving very slowly eastwards or north-eastwards.

Monday, 26th April, 1909.

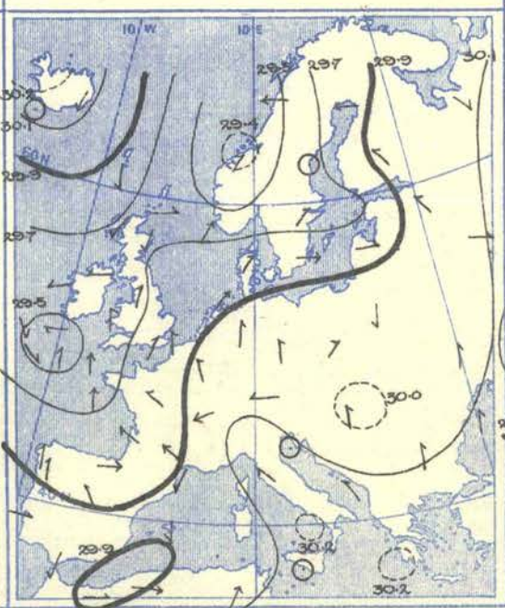
Temperature and Weather.

7 a.m.

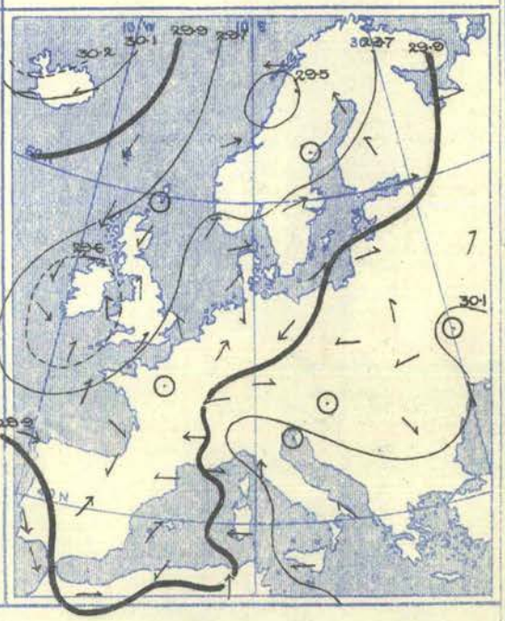


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair or fine generally, but overcast at many stations in the north of our area, and rainy in some parts of Ireland and Scotland, as well as at Lemberg, Limoges, and San Fernando. Showers experienced later throughout the United Kingdom, with thunderstorms in places, and heavy rain, with local thunderstorms, in various parts of France. Heavy rain also falling at some stations in South Germany.

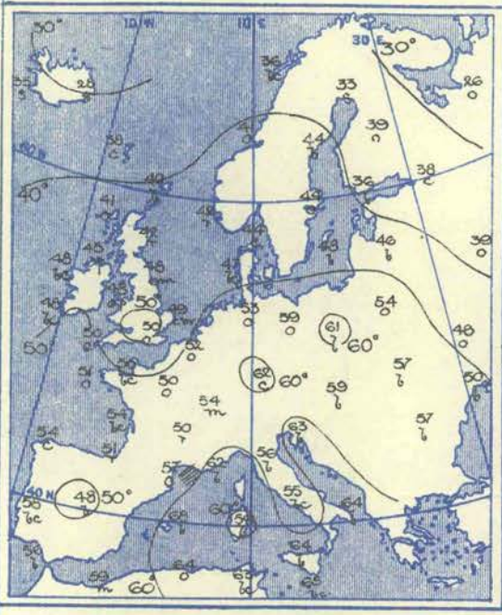
Temperature risen in most regions. Morning readings about 50° in England, Ireland, and over the nearer districts of the Continent, above 60° over a large portion of southern Europe, and as high as 71° at Palma. Below 40° very generally in the north-east of our area, and below 30° in places. Rising during day to rather above 60° in various parts of England and in Germany, to above 70° in the south of France, Austria, and Italy, to nearly 80° in places, and to 88° at La Calle.

Wind in morning showing partial or complete cyclonic circulations of little **strength** over the greater portion of our area; mainly between South and East in these Islands. Westerly current blowing a strong breeze in the south of Scandinavia, and a strong breeze from East prevailing at Bodö. No change of a general character later. Veering to the Northward in the west of Ireland, and becoming high from that quarter at Corunna.

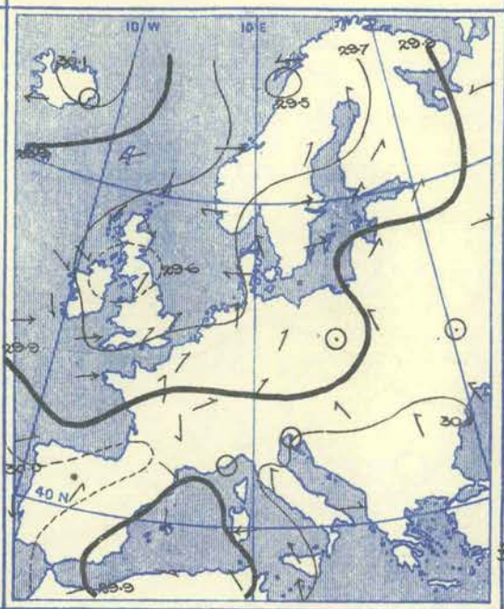
Barometer in morning ranging from above 30·1 ins. in the east and south-east of our area and also in Iceland to below 29·5 ins. in a depression off the south-west of Ireland and to less than 29·4 ins. in a system off the west coast of Norway. Relatively low in some other disturbances. Depressions moving slowly eastwards or north-eastwards later, but no important modification occurring in the general distribution of pressure.

Tuesday, 27th April, 1909.

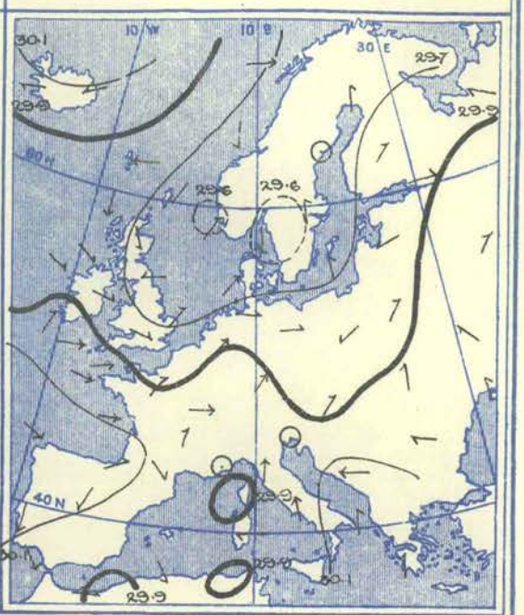
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled, with much cloud and some rain over these Islands and the adjacent parts of the Continent. Fair or fine in most other regions, but rain falling in the south of France, and snow at Haparanda. Thunderstorms, with considerable falls of rain, experienced later over this country and in the north-east of France, and heavy rain in the east of France and the surrounding regions; as much as 3·6 ins. at Lyons.

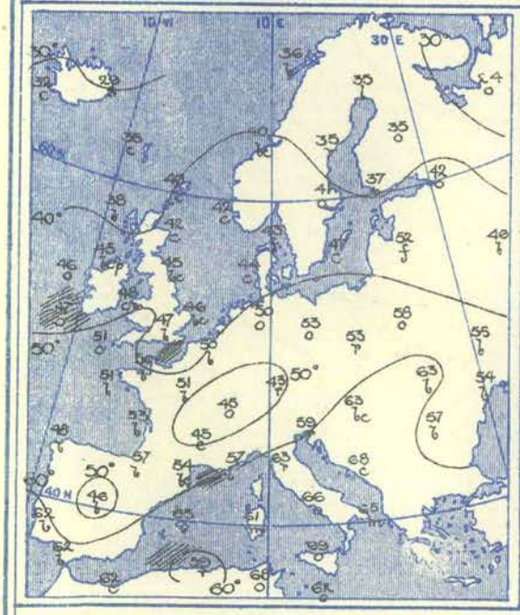
Temperature changed irregularly. Readings in morning ranging from above 65° at a few places in the Mediterranean region and 61° at Breslau to about 50° in England and Ireland, 40° at Nairn, below 40° in the north-east of our area, and to 26° at Archangel. Maxima during day 88° at Tunis, 87° at Palermo, between 70° and 80° in most other southern regions and also in Austria, and to about 60° in some parts of England. Minima at night lower than of late in several parts of this country, as low as 30° at Wick.

Wind in morning light or moderate in almost all parts of our area. No decided current prevailing over a large district, and circulation mainly cyclonic. Northerly in the west and north of these Islands, and Southerly in the east and south-east. A strong to high wind from the Eastward prevailing in the west of Iceland. No general change later; increasing in force from South at Palermo.

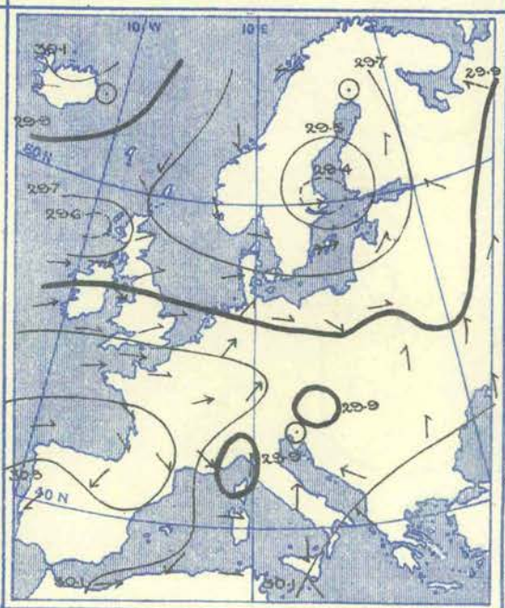
Barometer in morning above 30·1 ins. both in the far north-west and south-west of our area; below 29·6 ins in a depression over the north of England and Ireland, and below 29·5 ins. in a system over the north of Norway. Relatively low in a large shallow area over the western part of the Mediterranean. Pressure increasing over the western countries during day, and an anticyclone from the southward extending over the Bay of Biscay.

Wednesday, 28th April, 1909.

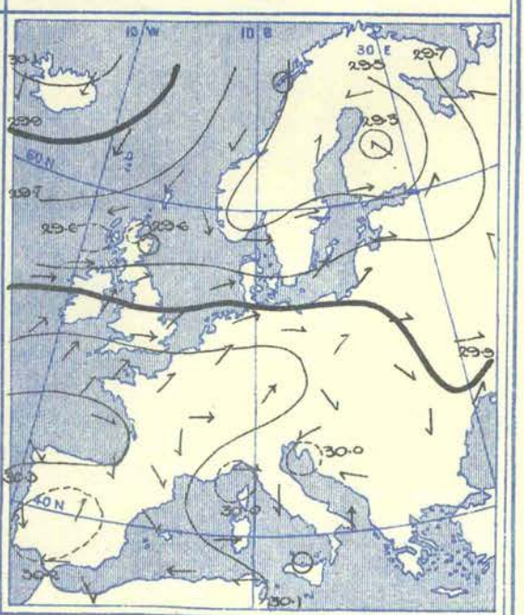
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair and bright to showery over these Islands, overcast, with rain in places, over Scandinavia and the Baltic region, as well as in central Europe, Italy, and Algeria. Fine in France, the Spanish Peninsula, and most of Russia and south-eastern Europe. Some showers later in nearly all parts of these Islands, with thunder at some English stations, and small amounts of rain in many Continental regions.

Temperature fallen somewhat in most districts. Morning readings between 45° and 50° in England, above 50° at most places in France and the central countries, above 60° at almost all stations on the shores of the Mediterranean, and as high as 71° at Sfax. Above 32° in the north generally, but 24° at Archangel. Rising to about 60° in the south-east of England during day, and also in Germany and the north of France, but touching or exceeding 70° at nearly all places in the south of our area; highest values 81° at Palermo and 82° at Tunis.

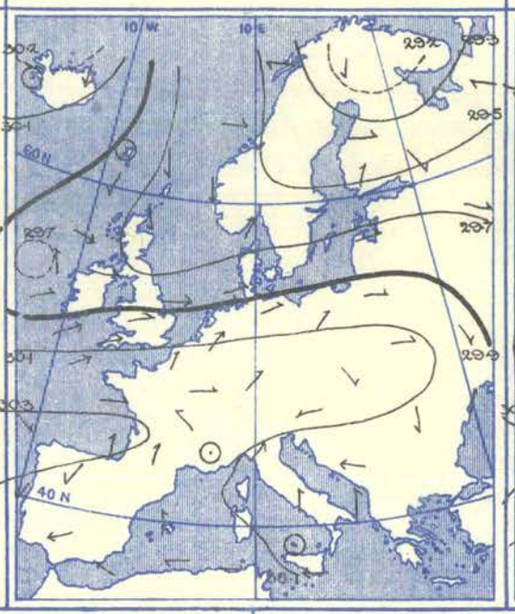
Wind in morning showing an anticyclonic circulation over the Bay of Biscay and its vicinity, and several complete or partial cyclonic circulations elsewhere. Westerly current fresh to strong in some parts of these Islands and the Baltic region, and some fresh or strong breezes prevailing on the shores of the Mediterranean. No great change later in day; backing to South-West on our western and southern coasts.

Barometer in morning ranging from above 30·3 ins. over the Bay of Biscay and above 30·1 ins. in northern Iceland to below 29·4 ins. in a depression having its centre near Stockholm. Other depressions shown off the west of Scotland, the Mediterranean, and Hungary. Swedish disturbance travelling away north-eastwards to Finland during day, but little modification taking place in the general distribution of pressure. Falling slightly in most parts of these Islands, and another depression appearing off the west of Ireland during the night.

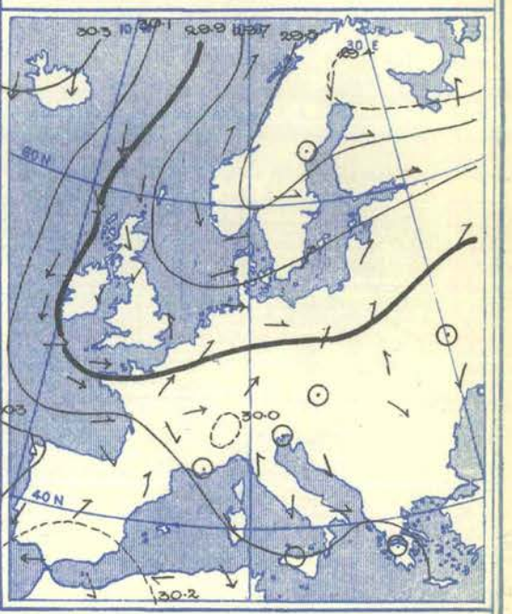
Thursday, 29th April, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine as a whole, but overcast in Ireland, showery in the extreme north and north-west of these Islands generally, and also at Paris and Brussels. Snow falling at Thorshavn and rain at Archangel. Showers or steady rain later in most parts of these Islands, hail or sleet in some districts, and also some thunder and lightning. Heavy rain in some parts of Germany and the Netherlands.

Temperature fallen in most regions, risen in the north and east of our area. Morning readings ranging from above 60° at most places in the south of our area and at Odessa to below 50° in the north of France, the Netherlands, and this country, and to below 40° in the north and north-east of Europe; lowest value 35° at Helsingfors. Maxima during day below 55° over the greater portion of this country, and below 60° in most parts of France and Germany; above 70° at nearly all stations in the south of our area, and nearly 80° in a few places.

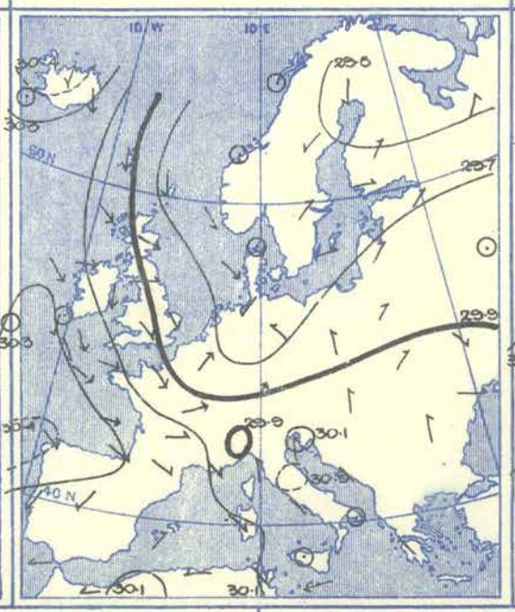
Wind in morning light to fresh and mainly Westerly over Ireland, England, and the North Sea regions, and South-Westerly over Germany and the Baltic. Light to fresh from some Northerly point over the Mediterranean region generally, but variable in places. Veering to the Northward during day over Scotland, Ireland, northern England, and Wales, and to North-West in the south and south-east of England during night. Increasing in force on our western and southern coasts.

Barometer in morning above 30·3 ins. in the north of Spain, and above 30·2 ins. in the north of Iceland. Below 29·2 ins. in Lapland, less than 29·7 ins. in a depression off the west of Ireland, and relatively low in the south-east of our area. Western depression travelling across Ireland and England during day and thence on to Germany. Increase of pressure brisk on the north-west and west coasts of these Islands in the rear of the system.

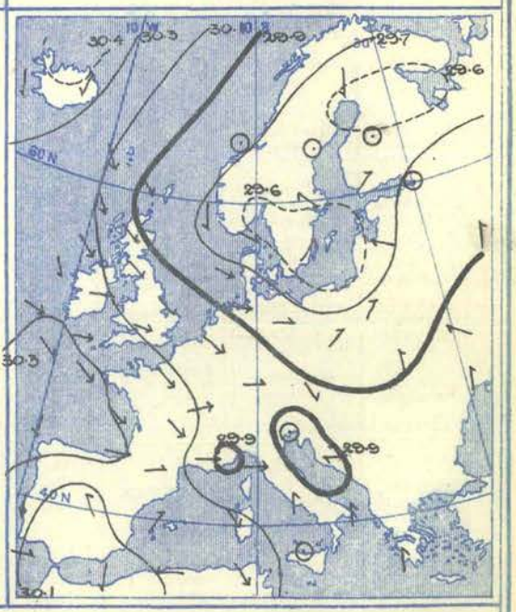
Friday, 30th April, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy and dull over Germany and the surrounding regions, and also in the south-west of France. Fair to very showery in these Islands and the north of France, and generally fair to fine both in the north and south of our area. Showers of rain, hail, sleet, or snow later in most parts of these Islands, and a thunderstorm at Llandudno. Some rain also falling in central and northern Europe, and thunder occurring at Paris.

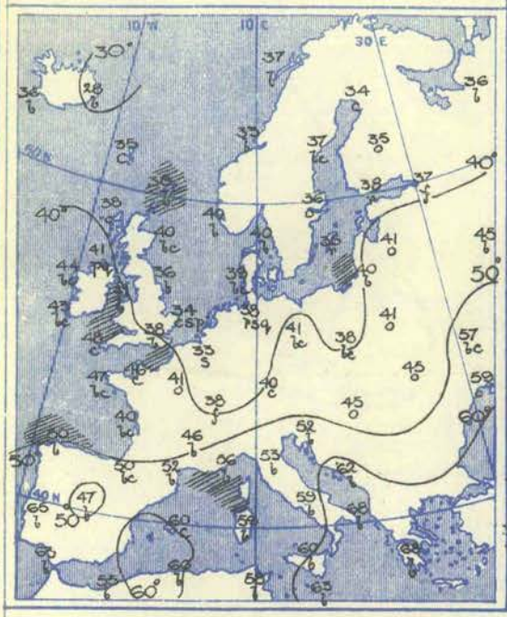
Temperature fallen generally. Morning readings ranging from above 65° in Greece and the south of Italy to below 50° at almost all places in the northern half of our area, and to below 40° in the north of these Islands, in Scandinavia, and northern Russia; lowest value 33° at Sumburgh Head. Maxima during day below 50° in many parts of this country, and below 55° at nearly all our stations, as well as in North Germany and the Netherlands. Thermometer rising to between 70° and 80° in the south of our area, and touching 81° at Madrid and Brindisi. Frost at night in the north-east of England.

Wind in morning moderate to strong from the North-Westward over these Islands and their neighbourhood, and light to moderate from the South-Westward over the Baltic. A strong West to South-West current prevailing in the east of France and the adjacent portion of Germany, and light variable breezes over the Mediterranean. Not much change later as a whole, but increasing to a fresh breeze from North-West on some shores of the Mediterranean.

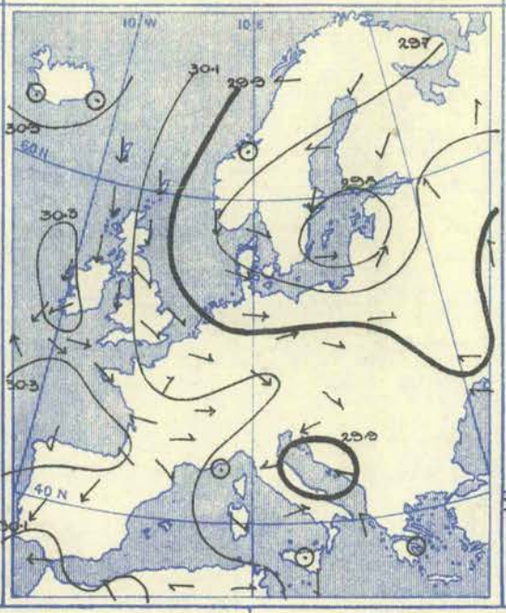
Barometer in morning as high as 30·4 ins. in the north-west of Spain and also in the north of Iceland. Below 29·5 ins. in a depression over Lapland, about 29·6 ins. in another system over Germany, and relatively low in some small and shallow disturbances over northern Italy. Pressure increasing during day over all the western half of our area, and depression on the Continent continuing to move eastwards. No great modification occurring in the general distribution of pressure.

Saturday, 1st May, 1909.

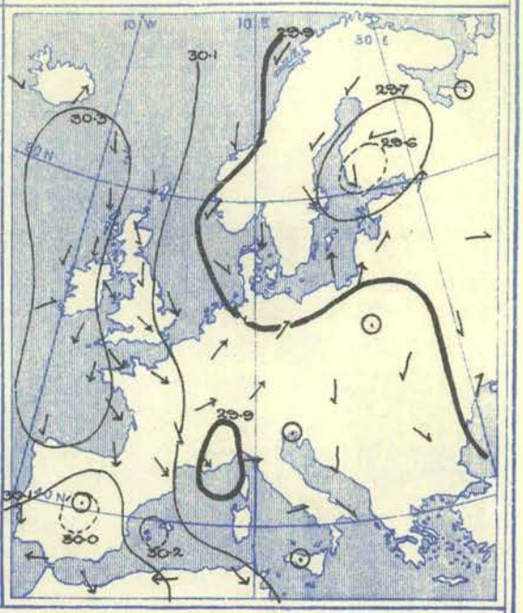
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine over the United Kingdom, France, and the southern parts of our area; unsettled, with rain or snow in places, in the Low Countries, North Germany, and southern Sweden. Some rain, sleet, or hail showers experienced later in these Islands, and moderate to heavy amounts of rain in various parts of the Low Countries, Germany, and Russia.

Temperature risen in Scotland, fallen generally elsewhere. Readings in morning ranging from 68° in the south-east of our area, and 60° at some southern stations to 40° or below in the central countries and these Islands, and to about 35° at some places in the extreme north-east of our area. Maxima during day below 50° in most parts of these Islands, Germany, and the north of France, and below 70° at nearly all places in the south of our area, but thermometer rising to 75° at Madrid and to 81° at Tunis and Brindisi.

Wind in morning Northerly to North-Westerly over this country and its immediate vicinity, Westerly over Germany, and Southerly to Easterly in the northern half of Russia; fresh to strong or high over these Islands. Light to fresh or strong breezes from West or North-West prevailing over the Mediterranean. No change of importance later in day.

Barometer in morning above 30·3 ins. in Iceland and also over the Bay of Biscay. Below 29·9 ins. in a depression over the Adriatic, and below 29·6 ins. in a more important system over the upper part of the Baltic. A large high pressure system extending slowly eastwards from the Atlantic during day, but general distribution of pressure undergoing little change. Baltic depression travelling on to Finland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	April 25th, 10.0 a.m. to 11.40 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	83° 100% 250°, 5	81·5° 100% 250°, 10	79° 95% 250°, 14	75·5° 90% 255°, 15				74° 90% 255°, 14	1,200	Clear sky with scud at times. Bank of Cu. on N. horizon.
2	April 26th, 10.4 a.m. to 11.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	88·5° 70% 170°, 7	87° 70% 170°, 15	85° 80% 180°, 15	80° 85% 180°, 16	77·5° 100% 180°, 15			77° 100% 185°, 18	1,600	Cloud level 1,450 m., blue sky and cumulus.
3	April 26th, 10.17 a.m. to 12.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	83° 74% 180°, 6	81° 75% 183°, 8	80° 75% 185°, 9	78° 85% 193°, 16	71° 87% 200°, 16	69° 88% 199°, 17	67° 88% 192°, 18	66° 88% 192°, 19	2,600	Clouds Cu.-Ni. 6-9 at about 1,600 m. Wind steady. Thunder. Kites struck and wire fused. Top kite and instrument (unhurt) recovered on 29th.
4	April 27th, 3.7 p.m. to 4.25 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	80° 87% 274°, 6	79° 85% 272°, 8	78° 85% 270°, 9	74° 95% 264°, 13	69° 90% 271°, 14				1,500	Clouds Cu.-Ni., 9, at about 900 m. Wind uncertain, dead calm in morning. Weather very overcast and threatening thunder.
5	April 28th, 10.53 a.m. to 12.14 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	80° 65% 270°, 9	79° 65% 244°, 12	78° 68% 232°, 13	73° 75% 244°, 14	69° 80% 232°, 16			66° 90% 262°, 17	1,800	Clouds Cu.-Ni., 9-10, at about 1,000 m. Wind gusty and variable. Weather bright to dull and overcast, rain later.
6	April 28th, 11.23 a.m. to 12.10 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	87·5° 70% 250°, 11	86° 70% 250°, 17	84·5° 80% 250°, 18	80° 90% 250°, 19				80° 90% 250°, 19	1,050	Upper clouds 290 m., not reached.
7	April 29th, 10.0 a.m. to 12.20 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	82·5° 95% 250°, 9	81° 95% 250°, 13	79° 95% 260°, 14	74·5° 95% 275°, 14					1,800	Half overcast. A. Str. and Fr. Cu. at 440 m.
8	April 29th, 10.7 a.m. to 10.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	86° 80% 225°, 7	85° 80% 225°, 14	82° 85% 225°, 14					80° 90% 225°, 12	760	Convection currents. Wind failed and kite had to be drawn in.
9	April 29th, 10.8 a.m. to noon.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	79° 65% 280°, 6	78° 65% 282°, 7	79° 63% 284°, 8	73° 57% 286°, 13				70° 80% 282°, 16	1,400	Clouds Cu.-Ni. 7 to Cu. 5. at about 1,600 m. Wind light and uncertain, calm later, weather bright. Readings not very reliable as chart stuck.
10	April 30th, 9.37 a.m. to 12.27 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	76° 67% 316°, 8	75° 70% 308°, 13	74° 70% 306°, 17	69° 76% 312°, 19	65° 77% 314°, 20	63° 73% 313, 22	60° 70% 312, 25	59° 65% 312°, 27	2,800	Weather overcast, snow for a few minutes, wind gusty, increasing later. Clouds Cu.-Ni., 4-9, at 1,600 m. Two kites on separate wires.
11	April 30th, 9.47 a.m. to 10.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	81° 65% 315°, 10	80° 315°, 17	78·5° 80% 315°, 19	76·5° 80% 315°, 19				76° 80% 315°, 19	1,100	Severe squall at 10.30 a.m., 22 m.p.s. during latter part of the descent. Temp. 2·5° lower. Humidity 20% more.

Continued on page 140.

63, Victoria Street, London, S.W. *May 5th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* } No. 18. EIGHTEENTH WEEK, SUNDAY MAY 2ND TO SATURDAY MAY 8TH, 1909. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—General Remarks.

Weather.—Except in parts of Scotland quite early in the week, the condition was dry and almost cloudless over the whole Kingdom.

Temperature was low at the beginning of the week, but afterwards high for the time of year, and in all districts the mean for the period was in excess of the average, the greatest divergence being about 3° in Scotland N. and in Ireland. The highest of the maxima, which were generally recorded between the 6th and 8th, ranged from 75° in Scotland E. and 74° in Scotland W. and England N.W. to 66° in England E. and N.E Along the east coast the maxima were little above 50°. The lowest of the minima occurred on the 2nd, and ranged from 24° in Scotland E., 25° in Scotland W., and 27° in England S.E. and Ireland N. to 32° in Scotland N. and to 38° in the English Channel. On the grass the thermometer fell to 14° at Llangammarch Wells, 18° at West Linton, 19° at Burnley, 20° at Greenwich, Newton Rigg, and Southport, 21° at Hereford and Markree Castle, and below 25° in several other localities.

Mean Temperature of the Sea.—At nearly all stations the water was warmer than during the corresponding week of last year, the greatest difference being about 3° at Wick and Cromarty. The figures ranged from about 51°·5 on the south-west coasts of England and Ireland to 45° at Lerwick and Aberdeen, and to 42° at Burnmouth.

Rainfall.—Over the greater part of England the week passed without rain, but on Sunday or Monday a few slight falls were experienced in the west and north of the Kingdom.

Bright Sunshine was unusally abundant, the number of hours being twice as great as the average in most parts of England. The percentage of the possible duration ranged from 89 in England S.E., 87 in England E., and above 80 in most other English districts to 68 in Scotland W., 57 in Ireland N., and to 51 in Scotland N. The greatest number of hours at individual stations were 96 at Worthing and Great Yarmouth, 94 at Southend-on-Sea, Brighton, Hastings, and Jersey, and 93 at Cambridge, Oxford, Wisley, Southampton, Bournemouth, Weymouth, and Cardiff; from 90 to 94 per cent. of the possible.

Barometer and Wind.—The distribution of pressure was mainly anticyclonic. At first the pressure maximum lay over France, but it moved thence to Germany, and finally became transferred to Scandinavia. During the latter part of the week the appearance of a large cyclonic system over the Bay of Biscay region was accompanied by a fresh to high wind from the eastward over the Channel and the major portion of England; but in the north and north-west of these Islands the wind drew into South-East or South, and had little force. At the end of the week a well-marked but not deep depression travelled southward over Scandinavia, and the highest pressure became situated over Iceland.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 140.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Unusual	Moderate	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Very unusual	Unusual
	Rainfall ...	Light	Light	Nought	Very light	Nought	Nought	Very light	Nought	Nought	Very light	Very light	Nought
	Sunshine ...	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 9 weeks from Mar. 7th, 1909.	Warmth ...	3 * 2	4 * 5	4 * 2	3 * 0	4 * 2	3 * 2	5 * 1	5 * 2	4 * 3	5 * 2	4 * 3	4 * 1
	Rainfall ...	2 * 5	6 * 2	6 * 2	5 * 2	4 * 2	4 * 2	3 * 3	5 * 3	3 * 2	4 * 3	4 * 3	4 * 2
	Sunshine ...	2 * 1	3 * 3	3 * 3	4 * 4	4 * 3	4 * 3	4 * 3	5 * 2	4 * 2	4 * 2	5 * 2	3 * 4

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	5 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

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SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

EIGHTEENTH WEEK—May 2nd to May 8th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	72	32	58·8	39·6	48·6	+ 2·9	56	+ 19	7	− 2	2	− 3	0·15	−0·53	55	+ 21	51	+19
Eastern																		
1. SCOTLAND, EAST	75	24	59·1	36·2	47·0	+ 0·9	59	+ 16	16	+ 5	1	− 3	0·03	−0·44	63	+ 25	59	+24
2. ENGLAND, N.E.	66	29	57·2	38·7	47·4	+ 0·6	52	+ 11	9	+ 4	0	− 3	0·00	−0·41	78	+ 38	75	+36
3. ENGLAND, EAST	66	30	57·2	40·9	48·6	+ 0·2	51	− 1	3	− 3	1	− 2	0·01	−0·38	90	+ 47	87	+46
4. MIDLAND COUNTIES	70	30	62·0	37·7	49·1	+ 0·8	68	+ 14	12	+ 3	0	− 3	0·00	−0·42	86	+ 47	83	+46
5. ENGLAND, S.E.	72	27	59·4	41·6	50·0	+ 0·4	58	+ 2	1	− 1	0	− 3	0·00	−0·39	91	+ 48	89	+46
Western																		
6. SCOTLAND, WEST	74	25	61·7	39·6	50·0	+ 2·6	65	+ 19	6	+ 2	1	− 3	0·05	−0·62	72	+ 33	68	+31
7. ENGLAND, N.W.	74	28	61·9	39·9	50·2	+ 2·2	66	+ 20	6	+ 3	0	− 4	0·00	−0·51	85	+ 45	82	+43
8. ENGLAND, S.W.	71	28	60·2	42·5	50·8	+ 1·8	62	+ 11	0	− 2	0	− 4	0·00	−0·54	86	+ 42	83	+41
9. IRELAND, NORTH	68	27	60·0	42·8	50·9	+ 3·0	62	+ 16	0	− 3	1	− 3	0·06	−0·53	59	+ 22	57	+21
10. IRELAND, SOUTH	69	30	61·0	45·2	52·6	+ 3·2	74	+ 20	0	− 2	1	− 3	0·05	−0·57	64	+ 23	61	+22
11. ENGLISH CHANNEL	70	38	59·9	46·5	52·8	+ 2·1	76	+ 15	0	0	0	− 3	0·00	−0·45	85	+ 32	85	+32

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 9 Weeks, March 7th to May 8th, 1909.

0. SCOTLAND, NORTH	72	20	*	*	*	*	195	+ 7	204	− 2	38	− 4	4·46	−3·01	262	+ 11	32	+ 1
Eastern																		
1. SCOTLAND, EAST	75	7	*	*	*	*	221	− 17	253	+ 31	39	+ 4	6·86	+2·55	271	− 2	33	0
2. ENGLAND, N.E.	70	21	*	*	*	*	298	+ 58	171	+ 5	35	+ 3	5·05	+1·59	347	+ 50	42	+ 6
3. ENGLAND, EAST	71	21	*	*	*	*	339	+ 27	132	− 42	33	+ 3	3·61	+0·38	404	+ 98	50	+12
4. MIDLAND COUNTIES	73	17	*	*	*	*	370	+ 47	176	− 9	31	+ 2	3·81	+0·19	369	+ 92	45	+11
5. ENGLAND, S.E.	72	13	*	*	*	*	330	− 1	105	− 14	34	+ 6	4·09	+0·58	399	+ 94	49	+12
Western																		
6. SCOTLAND, WEST	74	19	*	*	*	*	283	+ 35	156	+ 2	32	− 3	6·41	0·00	308	+ 23	37	+ 3
7. ENGLAND, N.W.	74	19	*	*	*	*	315	+ 54	130	− 1	33	0	5·47	+0·86	365	+ 91	45	+11
8. ENGLAND, SW	74	12	*	*	*	*	316	− 1	91	− 8	39	+ 6	6·20	+1·05	358	+ 47	44	+ 6
9. IRELAND, NORTH	69	22	*	*	*	*	302	+ 25	108	− 16	39	+ 1	5·70	+0·45	305	+ 36	37	+ 4
10. IRELAND, SOUTH	72	23	*	*	*	*	367	+ 28	80	− 12	44	+ 9	8·15	+2·41	335	+ 35	41	+ 4
11. ENGLISH CHANNEL	72	30	*	*	*	*	447	+ 73	26	− 4	38	+ 4	5·30	+1·03	413	+ 44	51	+ 6

THE YEAR.—Aggregates, &c., for the Period of 18 Weeks, January 3rd to May 8th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	239	− 9	513	− 23	83	− 5	13·38	−5·05	359	+ 20	27	+ 2
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	260	− 46	647	+ 48	70	0	11·71	+2·41	394	− 3	29	0
2. ENGLAND, N.E.	70	14	*	*	*	*	333	+ 13	566	+ 99	61	− 4	7·92	+1·07	493	+ 70	36	+ 5
3. ENGLAND, EAST	71	12	*	*	*	*	374	− 28	537	+ 24	63	− 1	5·86	−0·74	575	+129	42	+ 9
4. MIDLAND COUNTIES	73	8	*	*	*		413	− 14	621	+100	56	− 6	6·74	−1·06	513	+117	37	+ 8
5. ENGLAND, S.E.	72	0	*	*	*	*	394	− 55	474	+ 96	59	− 1	7·04	−0·92	587	+148	43	+11
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	337	0	431	+ 15	67	− 8	14·50	−0·76	422	+ 31	31	+ 2
7. ENGLAND, N.W.	74	10	*	*	*	*	373	+ 18	454	+ 72	64	− 5	10·17	−0·11	526	+139	38	+10
8. ENGLAND, S.W.	74	7	*	*	*	*	400	− 68	385	+ 87	67	− 2	10·11	−2·04	547	+101	40	+ 7
9 IRELAND, NORTH	69	14	*	*	*	*	420	+ 18	307	− 34	82	+ 2	11·85	+0·17	414	+ 27	30	+ 2
10. IRELAND, SOUTH	72	15	*	*	*	*	535	+ 10	257	0	81	+ 8	13·00	−0·29	472	+ 36	34	+ 3
11. ENGLISH CHANNEL	72	25	*	*	*	*	622	+ 29	151	+ 42	68	− 7	9·46	−0·72	628	+ 91	45	+ 7

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				Names of Stations.
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*59*	*7th*	*35*	*2nd*	*50·2*	*39·3*	*44·4*	—	*28*	*8*	*2*	*0·41*	—	*51·3*	—	*46*	—	*Balta Sound.*
	a Sumburgh Head ..	53	7th	33	2nd, 4th	49·7	36·9	42·9	− 0·2	28	14	3	0·39	− 0·08	61·1	+23·4	56	+22	Deerness.
	a Stornoway	67	7th	36	2nd	58·4	41·1	49·2	+ 4·4	54	3	2	0·20	− 0·42	52·8	+12·6	49	+12	Stornoway.
	a Castlebay, Barra Isd.	*63*	*6th*	*39*	*2nd*	*55·4*	*44·7*	*49·7*	+ *1·7*	*54*	*0*	*2*	*0·23*	—	*59·0*	—	*55*	—	*Castlebay.*
	a Wick	61	8th	33	8th	53·9	39·3	46·2	+ 1·2	41	8	2	0·18	− 0·27	*	*	*	*	
	p Strathpeffer	72	8th	35	3rd	62·8	40·2	50·8	+ 5·0	70	5	1	0·03	− 0·41	57·8	+21·6	54	+20	Strathpeffer.
	b, Main-land. *p* Glencarron ..	70	6th	34	2nd, 3rd	61·3	40·9	50·5	+ 5·9	64	3	2	0·16	− 1·06	*	*	*	*	
	p Fort Augustus	70	6th, 7th	33	8th	63·0	38·2	49·9	+ 4·3	71	11	1	0·01	− 0·52	48·7	+19·9	46	+19	Fort Augustus.
	p Fort William	71	6th	32	2nd	62·8	40·6	51·0	+ 4·3	69	4	2	0·11	− 0·77	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	68	4th	34	3rd	61·2	38·9	49·4	+ 3·3	65	9	2	0·08	− 0·30	*62·5*	—	*58*	—	*Gordon Castle.*
	a Nairn	72	5th	32	3rd, 6th	64·3	35·6	49·1	+ 3·1	77	18	2	0·08	− 0·29	67.2	—	62	—	Nairn.
	a Aberdeen	68	8th	35	2nd	54·6	38·3	46·0	+ 0·3	44	10	1	0·05	− 0·42	64·0	+24·4	60	+23	Aberdeen.
	a Balmoral	70	8th	25	8th	58·4	30·4	43·6	+ 0·8	60	32	0	0·00	− 0·52	63·3	—	59	—	Crathes S.
	p Crieff	75	8th	31	2nd, 8th	58·9	35·9	46·7	− 0·2	59	17	1	0·02	− 0·50	59·9	—	56	—	Balruddery
	a Leith	66	8th	34	2nd	58·1	40·4	48·7	+ 1·7	54	4	0	0·00	− 0·34	58·4	+25·4	55	+24	Edinburgh.
	a West Linton .. S	67	8th	24	2nd	58·7	34·5	45·9	+ 2·0	59	21	0	0·00	—	*65·2*	—	*62*	—	*West Linton.*
	p Marchmont .. S	68	8th	32	2nd, 3rd	58·4	35·3	46·2	+ 1·4	58	19	0	0·00	− 0·53	63·5	+26·8	60	+25	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	63	8th	29	8th	54·7	34·7	44·1	− 1·6	45	20	0	0·00	− 0·45	67·6	—	64	—	Cockle Park.
	a Shields	61	3rd	32	2nd	53·0	38·1	45·1	− 1·0	38	11	0	0·00	− 0·36	*62·6*	+*33·3*	*59*	+*31*	*Newcastle.*
	p Durham	62	8th	32	3rd, 8th	57·2	35·5	45·7	− 0·1	53	18	0	0·00	− 0·38	73·3	+58·3	70	+37	Durham.
	p Rounton .. M	63	4th	31	2nd	59·1	36·4	47·1	+ 0·9	59	16	0	0·00	− 0·34	*	*	*	*	
	p Scarborough .. M	60	3rd	38	2nd	54·9	41·7	47·9	+ 1·3	43	1	0	0·00	− 0·40	80·2	—	76	—	Scarborough.
	p York	65	4th	35	2nd, 3rd	61·3	39·5	49·8	+ 1·4	65	7	0	0·00	− 0·42	79·3	+43·3	76	+41	York.
	b, South. *a* Spurn Head	57	3rd	36	2nd	52·9	43·1	47·7	+ 0·3	40	0	0	0·00	− 0·29	*	*	*	*	
	a Lincoln	64	4th, 8th	32	2nd	61·0	38·8	49·2	+ 0·6	64	9	0	0·00	− 0·38	85·6	—	82	—	Skegness.
	a Fulbeck	66	8th	35	8th	60·6	40·3	49·8	+ 1·5	62	5	0	0·00	− 0·40	84·6	—	81	—	Rauceby.
															92·2	—	*90*	—	*Lowcestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	59	4th	38	2, 3, 4th	54·5	41·6	47·7	+ 1·0	42	1	0	0·00	—	89·7	—	86	—	Cromer.
	p Hillington .. M	63	4th	34	3rd	59·7	39·8	49·2	+ 1·0	60	6	1	0·05	− 0·35	83·9	+42·5	81	+41	Hillington.
	a Yarmouth	53	4, 5, 8th	33	2nd	51·7	43·0	47·1	− 0·1	36	0	0	0·00	− 0·36	95·7	—	93	—	Yarmouth.
	a Norwich	62	4th	33	3rd	58·6	40·3	48·9	+ 1·2	55	5	1	0·02	*	*	*	*	*	
	p Geldeston	60	4th	32	3rd	55·7	40·5	47·6	− 0·4	46	4	1	0·01	− 0·37	87·4	+43·4	85	+42	Geldeston.
	b, South. *p* Cambridge ..	65	6th	34	2nd, 3rd	60·8	38·2	48·8	− 0·3	64	11	0	0·00	− 0·37	93·3	+51·0	91	+50	Cambridge.
	a Felixstowe ..	*55*	*8th*	*35*	*2nd*	*52·6*	*44·9*	*48·5*	+ *0·3*	*46*	*0*	*1*	*0·03*	—	*87·5*	—	*85*	—	*Felixstowe.*
	a Clacton-on-Sea ..	56	8th	35	2nd	54·1	45·3	49·4	+ 1·5	52	0	0	0·00	—	90·1	—	88	—	Clacton.
	a Rothamsted ..	66	6th	30	3rd	59·7	38·3	48·4	+ 0·2	60	10	0	0·00	− 0·40	90·2	+50·1	88	+49	Rothamsted.
	a Shoeburyness ..	*57*	*8th*	*35*	*2nd*	*55·3*	*44·9*	*49·8*	− *0·2*	*55*	*0*	*0*	*0·00*	− *0·26*	*94·0*	—	*91*	—	*Southend.*
	p Tottenham	65	6th	36	2nd, 3rd	59·8	41·3	50·0	+ 0·6	59	2	0	0·00	—	89·3	—	87	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	62	4th, 8th	32	2nd, 3rd	58·4	35·4	46·2	− 0·2	57	18	0	0·00	− 0·47	83·6	—	80	—	Harrogate.
	a Bawtry	69	5th	34	2, 3, 4, 8th	65·1	35·4	49·4	+ 1·1	80	18	0	0·00	− 0·36	85·3	+50·7	82	+49	Worksop.
	p Buxton .. M	*62*	*6th, 8th*	*29*	*2nd*	*58·7*	*36·5*	*46·9*	+ *2·3*	*57*	*15*	*0*	*0·00*	− *0·67*	*91·6*	—	*88*	—	*Buxton.*
	a Nottingham ..	64	6th, 8th	35	2nd	61·0	39·3	49·5	+ 1·2	64	8	0	0·00	− 0·38	89·5	—	86	—	Nottingham.
	p Birmingham, Edgbsn	67	6th	35	2nd	61·5	39·3	49·7	+ 1·5	65	8	0	0·00	− 0·45	83·1	—	81	—	Birmingham.
	a Raunds .. M	66	6th	30	2nd	62·2	36·1	48·4	+ 0·1	70	17	0	0·00	—	*	*	*	*	
	a Oxford	68	6th	33	2nd	62·0	37·9	49·2	− 0·3	68	11	0	0·00	− 0·37	92·5	+52·5	90	+51	Oxford.
	b, West. *a* Cheadle .. M	66	6th, 7th	30	2nd	60·5	38·7	49·0	+ 2·0	63	9	0	0·00	− 0·46	77·4	—	74	—	Sheffield.
	p Shrewsbury	69	6th	33	3rd	63·8	38·5	50·4	+ 1·4	74	10	0	0·00	—	*	*	*	*	
	a Hereford .. M	70	6th	31	2nd	63·4	36·8	49·3	+ 0·1	73	15	0	0·00	− 0·44	*	*	*	*	
	a Cirencester	68	6th	31	3rd	61·1	38·9	49·3	+ 1·6	64	9	0	0·00	− 0·44	90·0	+48·0	87	+47	Cirencester.
	a Bath	70	6th	30	3rd	63·1	38·0	49·8	+ 0·3	71	11	0	0·00	− 0·44	89·5	—	87	—	Bath.
															91·5	—	*89*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	63	6th	35	2nd	59·6	42·6	50·6	+ 1·2	60	0	0	0·00	− 0·35	91·6	+51·1	89	+50	Kew.
	a Marlborough ..	68	6th	27	3rd	61·2	36·0	47·8	+ 0·2	66	17	0	0·00	− 0·43	89·0	+51·2	86	+50	Marlborough.
	a Margate	60	4th	37	3rd	56·2	43·9	49·7	+ 0·7	54	0	0	0·09	− 0·32	89·8	+49·2	87	+48	Margate.
	a Wisley, Surrey ..	67	6th	32	2nd	61·0	40·3	50·0	+ 0·3	63	5	0	0·00	—	93·2	—	91	—	Wisley.
	a Swarraton .. M	69	6th	28	3rd	61·7	37·5	48·9	+ 1·1	67	13	0	0·00	− 0·45	95·8	—	94	—	Worthing.
	a Tunbridge Wells M	66	6th	33	2nd	60·2	39·6	49·3	+ 0·8	61	7	0	0·00	− 0·40	91·3	+48·8	89	+47	Tunbridge Wells.
	a Dungeness	56	4, 5, 6, 7th	33	2nd	55·0	43·4	48·9	+ 0·4	48	0	0	0·00	− 0·29	87·9	—	86	—	Littlestone.
	p Hastings	62	6th	36	2nd	57·4	44·0	50·3	+ 1·1	58	0	0	0·00	− 0·36	*93·5*	+*46·9*	*92*	+*46*	*Hastings.*
	p Southampton ..	72	6th	33	2nd	63·5	42·4	52·3	+ 1·6	72	0	0	0·00	− 0·44	92·6	+48·2	91	+47	Southampton.
	a Ventnor	63	6th	37	2nd	58·6	46·0	51·9	+ 1·5	69	0	0	0·00	− 0·37	90·8	+43·2	89	+42	Ventnor.
															91·0	+44·5	89	+44	Eastbourne.
LONDON	*a Westminster* ..	*64*	*6th*	*35*	*2nd*	*59·7*	*44·3*	*51·5*	+ *1·3*	*67*	*0*	*0*	*0·00*	− *0·35*	*86·9*	+*54·3*	*84*	+*53*	*Westminster.*
	a Greenwich	*64*	*4th, 6th*	*35*	*2, 3, 4th*	*61·0*	*40·5*	*50·1*	+ *0·3*	*63*	*4*	*0*	*0·00*	− *0·32*	*92·4*	+*53·9*	*90*	+*52*	*Greenwich.*
6. — a, SCOTLAND. W. ..	*p* Laudale	70	6th	34	2nd	62·0	43·5	52·2	+ 4·7	71	0	0	0·00	− 0·91	*	*	*	*	
	p Poltalloch .. S	70	5th	25	2nd	61·4	38·7	49·4	+ 2·0	66	9	2	0·30	− 0·30	*	*	*	*	
	p Glasgow	70	8th	33	2nd	60·6	41·0	50·2	+ 2·7	62	3	0	0·00	− 0·52	60·1	+26·5	57	+25	Glasgow.
	p Rothesay .. S	70	8th	30	2nd	61·3	40·6	50·3	+ 2·6	64	4	2	0·12	− 0·53	*	*	*	*	
	a Kilmarnock	71	6th	28	2nd	63·6	37·1	49·6	+ 2·4	74	14	1	0·01	—	*73·2*	—	*69*	—	*Kilmarnock.*
	a Colmonell	72	6th	28	2nd	62·4	39·0	50·0	+ 2·5	69	8	0	0·00	− 0·56	*	*	*	*	
	p Dumfries	74	8th	30	2nd	64·5	38·4	50·7	+ 3·0	76	10	0	0·00	− 0·54	*	*	*	*	
	p Cally, Gatehouse S	73	8th	28	2nd	62·3	36·5	48·6	+ 1·4	69	15	0	0·00	− 0·69	*	*	*	*	
	b, ISLE OF MAN .. *p* Douglas	62	6th, 8th	34	2nd, 3rd	57·2	41·5	48·9	+ 1·9	50	1	0	0·00	− 0·58	84·0	+37·4	80	+36	Douglas.
															86·2	—	83	—	Hoylake.
7. — a, ENGLAND, N.W. ..	*p* Aspatria	69	8th	28	2nd	63·0	37·7	49·6	+ 3·1	71	12	0	0·00	− 0·53	86·0	—	82	—	Aspatria.
	p Newton Rigg ..	67	8th	28	2nd	60·7	36·1	47·7	+ 1·9	65	17	0	0·00	− 0·52	78·6	+38·7	75	+37	Newton Rigg.
	p Stonyhurst	63	8th	30	2nd	59·2	39·2	48·6	+ 1·7	58	8	0	0·00	− 0·63	81·9	+43·6	78	+42	Stonyhurst.
	p Blackpool .. M	66	5th, 8th	30	2nd	61·7	39·3	49·8	+ 2·1	66	8	0	0·00	− 0·46	89·2	+48·2	85	+46	Blackpool.
	p M'nch'ster, Prestwich	66	8th	31	2nd	61·8	39·1	49·8	+ 2·5	67	8	0	0·00	− 0·54	*81·8*	+*47·7*	*79*	+*46*	*Prestwich.*
	a Liverpool (Bidston)	67	6th, 8th	38	2nd	62·6	42·1	51·7	+ 3·5	68	0	0	0·00	− 0·40	*83·6*	—	*85*	—	*Liverpool.*
	a Hawarden Bridge ..	69	7th	36	2nd	61·1	40·3	50·1	+ 0·7	64	5	0	0·00	− 0·36	*83·6*	+*45·0*	*84*	+*43*	*Southport.*
															88·9	—	*86*	—	*Rhyl.*
	b, NORTH WALES .. *p* Llandudno .. M	67	6th	39	3rd	62·3	43·0	52·1	+ 3·4	71	0	0	0·00	− 0·41	84·5	+43·2	81	+42	Llandudno.
	a Holyhead	66	6th	39	2nd	60·7	43·0	51·3	+ 3·2	65	0	0	0·00	− 0·47	91·0	—	88	—	Aberdovey.
	p Bettws-y-Coed ..	74	5th	35	3rd	65·6	38·9	51·5	+ 3·2	80	9	0	0·00	—	80·8	—	78	—	Bettws-y-Coed.
															87·4	—	85	—	Aberystwyth.
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	68	6th	28	2nd	62·0	36·5	48·5	+ 1·5	69	15	0	0·00	—	82·7	—	80	—	Llangammarch Wells.
	a Pembroke	67	6th	33	2nd	58·7	44·7	51·3	+ 3·1	65	0	0	0·00	− 0·43	89·6	+43·9	87	+43	Pembroke.
	a Cardiff	68	6th	35	2nd	61·2	40·4	50·2	0·0	64	4	0	0·00	− 0·55	*93·2*	—	*91*	—	*Cardiff.*
															90·8	+*44·5*	*88*	+*43*	*Tenby.*
	b, ENGLAND, S.W. .. *a* Clifton	71	6th	35	2nd	64·3	41·6	52·3	+ 2·4	74	1	0	0·00	− 0·51	*91·1*	—	*88*	—	*Clifton.*
	a Shaftesbury .. M	68	6th	33	2nd	59·8	39·8	49·2	+ 1·1	60	6	0	0·00	− 0·50	*	*	*	*	
	a Arlington	69	6th	34	2nd, 3rd	61·4	42·0	51·1	+ 3·6	64	0	0	0·00	− 0·65	82·5	+37·5	81	+37	Newquay.
	a Cullompton .. M	69	6, 7, 8th	31	3rd	63·8	41·3	51·9	+ 2·6	72	2	0	0·00	− 0·51	84·3	+43·8	83	+43	Cullompton.
	a Portland Bill ..	56	5, 6, 7th	39	2nd	53·6	46·1	49·6	+ 0·3	53	0	0	0·00	—	*92·6*	—	*91*	—	*Weymouth.*
	p Plymouth	69	6th	33	2nd	61·8	45·5	53·2	+ 2·9	78	0	0	0·00	− 0·50	89·8	+44·8	88	+44	Plymouth.
	p Falmouth	59	7th	36	2nd	55·5	46·8	50·9	+ 1·2	62	0	0	0·00	− 0·54	84·1	+35·7	83	+35	Falmouth.
															85·3	+*38·9*	*84*	+*38*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	66	5th	39	2nd	59·3	43·6	51·0	+ 4·0	63	0	2	0·08	− 0·38	*	*	*	*	
	a Blacksod Point ..	67	7th	39	2nd, 3rd	60·7	44·6	52·2	+ 3·7	71	0	1	0·07	− 0·57	*	*	*	*	
	p Markree Castle ..	67	5th, 6th	27	2nd	62·8	41·7	51·6	+ 4·3	68	1	1	0·14	− 0·46	57·8	+19·3	55	+18	Markree Castle.
	a Birr Castle	68	6, 7, 8th	30	2nd	63·1	42·9	52·4	+ 4·3	73	0	1	0·04	− 0·47	*53·2*	+*14·2*	*51*	+*14*	*Birr Castle.*
	b, East. *p* Armagh	65	6th	36	2nd	59·9	42·3	50·6	+ 3·1	60	0	1	0·00	− 0·52	61·0	+23·3	58	+22	Armagh.
	a Donaghadee	57	7th	34	2nd	54·3	41·7	47·6	+ 0·3	40	1	1	0·02	− 0·47	*	*	*	*	
10. IRELAND, S. — a, East.	*p* Dublin, City	62	5th	33	2nd	59·4	44·2	51·3	+ 1·5	65	0	1	0·04	− 0·39	77·1	+34·1	74	+33	Phœnix Park.
	a Kilkenny	66	6th	31	2nd	60·9	44·7	52·3	+ 3·9	72	0	0	0·00	− 0·50	*	*	*	*	
	a Waterford	66	8th	32	2nd	60·3	44·7	52·0	+ 3·3	70	0	0	0·00	− 0·53	*	*	*	*	
	b, West. *a* Birr Castle	68	6, 7, 8th	30	2nd	63·1	42·9	52·4	+ 4·3	73	0	1	0·04	− 0·47	53·2	+14·2	51	+14	Birr Castle.
	a Foynes	69	7th	35	2nd	63·6	44·8	53·6	+ 4·3	81	0	1	0·03	− 0·50	*	*	*	*	
	a Cahir .. M	67	6th	30	2nd	60·7	44·0	51·9	+ 3·5	69	0	1	0·05	—	*	*	*	*	
	a Killarney	69	7th, 8th	34	2nd	63·1	46·4	54·3	+ 5·4	86	0	1	0·01	− 0·71	*	*	*	*	
	a Valencia	68	7th	38	2nd	61·9	49·1	55·1	+ 5·4	92	0	3	0·21	− 0·57	49·9	+ 7·6	48	+ 7	Valencia.
	a Roche's Point ..	60	8th	35	2nd	56·0	46·3	50·9	+ 1·1	62	0	1	0·08	− 0·53	74·2	—	72	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	59	6th	43	2nd	56·7	47·1	51·6	+ 1·4	67	0	0	0·00	− 0·40	73·6	+26·3	72	+26	Scilly.
	a Jersey, St. Aubins ..	70	6th	38	2nd	62·7	45·9	53·8	+ 3·0	83	0	0	0·00	− 0·48	94·0	+44·0	93	+44	St. Heliers.
	a Guernsey	66	6th	40	2nd	60·3	46·6	53·0	+ 2·4	77	0	0	0·00	− 0·50	88·5	+35·4	88	+35	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 94·3 hrs.* (+*48·9 hrs.*), *93* % (+*48* %); *Bournemouth, 93·0 hrs.*. *91* %; *Bognor,* hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound	—	—	44·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	43·4
	Crathes	5	23	45·5	43·9
	Balmoral	6	22	—	—
	West Linton	5	18	—	—
	Marchmont	3	26	46·3	—
2.	Cockle Park	4	29	44·0	43·9
	Durham	3	29	—	—
	York	—	—	48·2	46·1
	Hull	3	29	47·1	45·0
	Lincoln	—	—	48·5	46·0
	Rauceby	4	28	50·5	47·2
3.	Norwich	2	30	—	—
	Yarmouth	—	—	51·3	49·9
	Lowestoft	0	31	49·6	47·8
	Cambridge	2	25	50·4	49·0
	Clacton-on-Sea	0	31	49·8	49·8
	Southend	0	37	51·7	—
	Tottenham	2	29	—	48·8
4.	Harrogate	5	26	45·5	45·1
	Huddersfield	4	27	47·6	44·1
	Buxton	3	24	47·4	44·3
	Sheffield	2	27	48·2	45·2
	Nottingham	3	27	49·2	46·6
	Birmingham	3	26	45·0	45·1
	Oxford	3	25	—	—
	Hereford	6	21	—	—
	Cirencester	1	30	—	—
5.	Margate	0	31	49·8	48·2
	Greenwich	4	20	—	—
	Westminster	2	27	—	—
	Kew	3	25	50·0	48·4
	Canterbury	3	24	49·9	49·5
	Tunbridge Wells	3	26	50·7	—
	Wisley	3	26	49·7	48·7
	Worthing	2	28	51·4	49·3
	Portsmouth	1	29	52·2	50·3
6.	Glasgow	1	25	—	—
	Rothesay	—	—	—	46·0
	Colmonel	1	25	—	—
	Dumfries	—	—	—	—
	Douglas	0	33	—	—
7.	Aspatria	3	24	—	—
	Newton Rigg	3	20	47·1	44·6
	Burnley	3	19	46·7	44·2
	Southport	3	20	51·5	49·3
	Manchester City	1	27	47·5	46·8
	Bettws-y-Coed	0	33	47·3	46·0
8.	Llangammarch Wells	6	14	48·4	46·3
	Cardiff	2	25	49·9	48·0
	Clifton	3	28	—	—
	Bath	—	—	51·3	49·8
	Plymouth	1	25	52·1	—
9.	Armagh	1	28	50·0	47·6
	Markree	1	21	—	—
10.	Dublin, Trin. Coll.	1	26	50·0	48·4
11.	Guernsey, Brooklyn	1	29	52·4	?

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	45	45	45·0
	Kirkwall	48	45	45·7
	Wick	49	48	48·1
SCOTLAND, E.	Cromarty	49	41	45·1
	Pennan Bay	48	44	45·8
	Aberdeen, Cove Bay	47	43	45·0
ENGLAND, N.E.	Burnmouth, Berwick	43	41	42·0
	Scarborough	47	42	44·6
ENGLAND, E.	Shipwash Lightship	49	47	48·2
	Margate	52	50	50·9
ENGLAND, S.E.	Eastbourne‡	51	48	49·7
SCOTLAND, W.	Lamlash	—	—	—
	Ballantrae	49	45	46·7
ENGLAND, N.W.	Port Erin	50	47	48·0
ENGLAND, S.W.	Newquay	52	51	51·8
	Plymouth‡	53	50	51·7
	Salcombe	53	49	50·5
IRELAND, N.W.	Sheephaven	50	48	49·4
	Teelin	53	49	51·3
IRELAND, S.W.	Cleggan	55	49	51·4
	Seafield	59	47	51·6
IRELAND, E.				

‡ Only one observation each day.

APPARATUS USED IN THE KITE ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12
No. of Kites	2	3	2	1	—	—	1	1	1	1	1	3
Area of Surface (metres 2)	13	23	15	8	—	—	4	5·2	4	5	7·4	23
Length of Wire (metres)	2,500	4,600	4,900	1,300	—	—	1,200	1,800	1,500	1,900	2,200	3,800

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

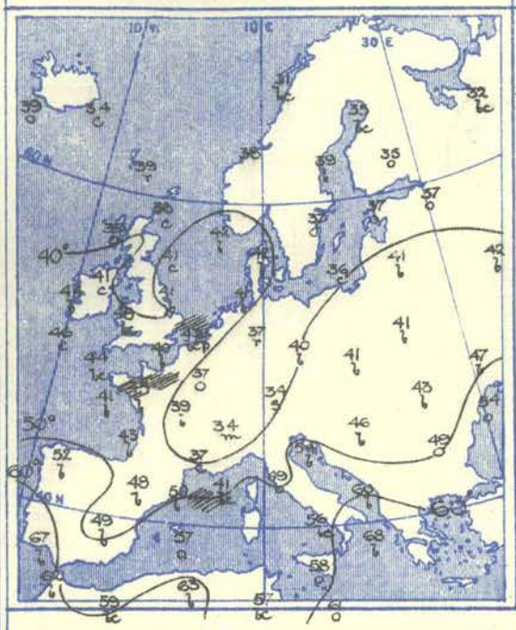
No.	Date, 1909.	Station.	Wind Direction (in Degrees, 90° = E, 180° = S, 270° = W, 360° = N) and Velocity, Metres per Second.																		
			Ground Level.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres	4,000 metr's.	4,500 metr's.	5,000 metr's.	5,500 metr's.	6,000 metr's.	6,500 mtrs.	7,000 mtrs.	7,500 mtrs.	8,000 mtrs.	8,500 metr's.	9,000 metr's.	9,500 metr's
1	April 19th, 8.15 a.m.	Ditcham Park, Petersfield, 165 metres.	120°, 4	135°, 8	155°, 7	185°, 8	185°, 7	195°, 9	205°, 8	225°, 6	205°, 7	200°,11										
2	April 21st, 7.58 a.m.	Ditcham Park, Petersfield, 165 metres.	110°, 6	130°, 8	160°, 4	140°, 6	150°, 7	130°, 8	135°, 8	115°, 9	125°, 7	155°, 9	155°,10									
3	April 26th, 2.41 p.m.	Ditcham Park, Petersfield, 165 metres.	160°, 5	160°, 10	200°, 11	220°, 16	220°, 17	215° 14	215°, 16													
4	May 5th, 7.0 p.m.	Pyrton Hill, Oxon, 150 metres.	80°, 9	90°, 15	95°, 15	105°, 15	110°, 13	110°, 14	105°, 15	105°, 14	120°,13	135°,10	140°,11	140°,12	135°,13	120°,13	130°,13	130°,13	130°,12			
5	May 6th, 7.5 a.m.	Pyrton Hill, Oxon, 150 metres.	90°, 10	110°, 14	105°, 15	115°, 15	115°, 17	120°, 19	115° 19	110°, 18												
6	May 6th, 7 p.m.	Pyrton Hill, Oxon, 150 metres.	90°, 9	100°, 13	120°, 13	130°, 11	100°, 9	100°, 8	120°, 9	90°, 9	120°, 8	125°, 7	140°,10	140°,11	140°,12	140°,12	140°,11	140°,13	135°,16	130°,16	130°,16	130°,2
7	May 7th, 7.3 p.m.	Pyrton Hill, Oxon, 150 metres.	80°, 10	90°, 13	100°, 14	105°, 14	110°, 15	110°, 13	100°, 14	95°, 16	90°,16	90°,14	90°,14									

NOTES.—Nos. **1, 2, 3, 6.**—One theodolite.
4, 5, 7.—Two theodolites.
In ascents **4, 5, 6, 7**, the velocities have been smoothed; the actual motion of the balloons from minute to minute was very irregular.
1.—Cirrus from 250°. Balloon fell 39 kilometres N. 13° E. near Fleet, Hants.
2.—Cirrus, halo.
3.—Fell at Bushey Heath, 87 kilometres, N. 29° E.
4.—Rate of ascent 2·9 m.p.s., found.
5.—Kept in view for 20 minutes. Ascensional velocity 3·2 m.p.s., found.
6.—Kept in view for 46 minutes. Assumed ascensional velocity probably too low.
7.—Kept in view for 22 and 25 minutes respectively. Ascensional velocity 3·1 m.p.s.

Sunday, 2nd May, 1909.

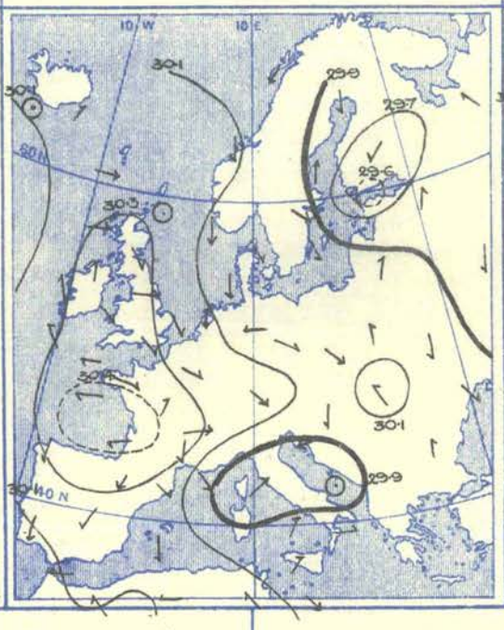
Temperature and Weather.

7 a.m.

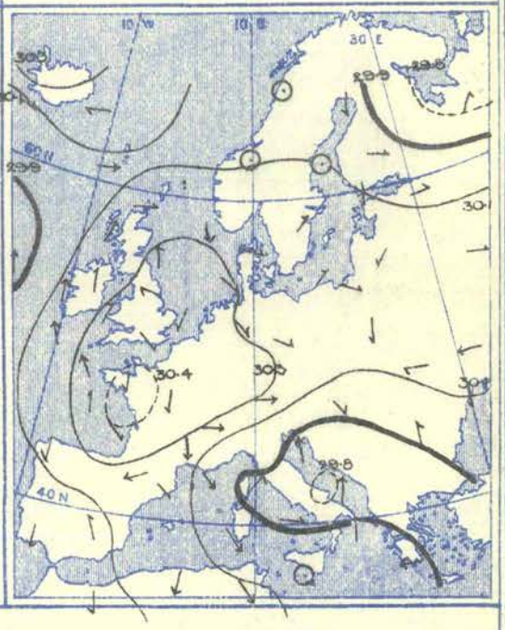


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning overcast, with rain or snow in some parts of Germany and Finland, and showery at Yarmouth, but fair to very fine and bright as a whole. Some rain later in Ireland and the north of Scotland, and considerable amounts in various parts of central Europe and Russia.

Temperature changed irregularly or fallen as a whole, risen over these Islands. Morning readings about 40° over most of the United Kingdom, France, and the central countries, and below 35° at some stations in the extreme north-east. Above 55° in some southern districts, and as high as 68° at Brindisi. Maxima during day below 50° in many parts of this country, Germany, Austria, and the east of France, but between 70° and 80° in the far south, and 81° at Lisbon. Slight frost at night over parts of central England.

Wind in morning showing two cyclonic circulations, one over Italy and its surroundings, and the other in the north-east of Europe, and an anticyclonic movement over the Bay of Biscay region. Northerly current fresh to strong over Scandinavia and the North Sea, and a strong North-West breeze prevailing in the south-east of France. Decreasing in force and varying somewhat in direction later over northern Europe and the North Sea, and increasing slightly from the Southward along our western coast. A high Easterly wind prevailing all day at San Fernando.

Barometer in morning ranging from above 30·3 ins. in a rather large anticyclone centred over the north-west of France to below 29·9 ins. in a large depression over Italy and the Adriatic, and to below 29·6 ins. in another system over Finland. High pressure system moving eastwards during day and barometer falling rather decidedly in the west of these Islands. An increase of pressure taking place in Iceland and a decrease over the Spanish Peninsula.

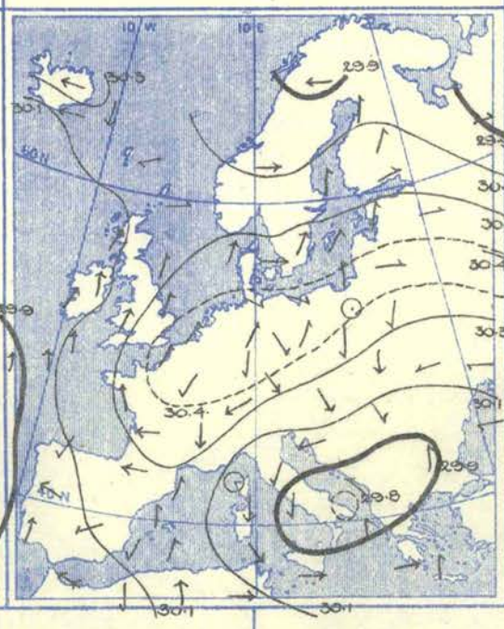
Monday, 3rd May, 1909.

Temperature and Weather.

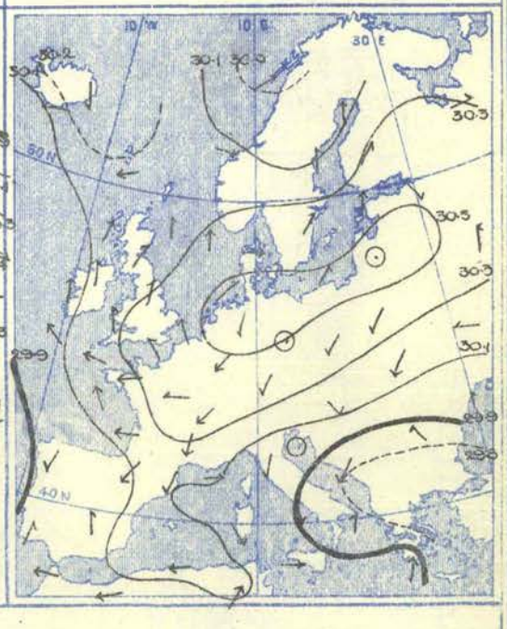
7 a.m.

Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine or fair over the greater portion of our area, but rainy on our extreme north and north-west coasts and in some Polish districts, and also at Pesaro. Snow falling at Christiansund and Archangel. Rain experienced later in the west of Norway, Austria, and at Brindisi and Palermo, and slight amounts in the extreme north of these Islands, but conditions continuing very fine generally.

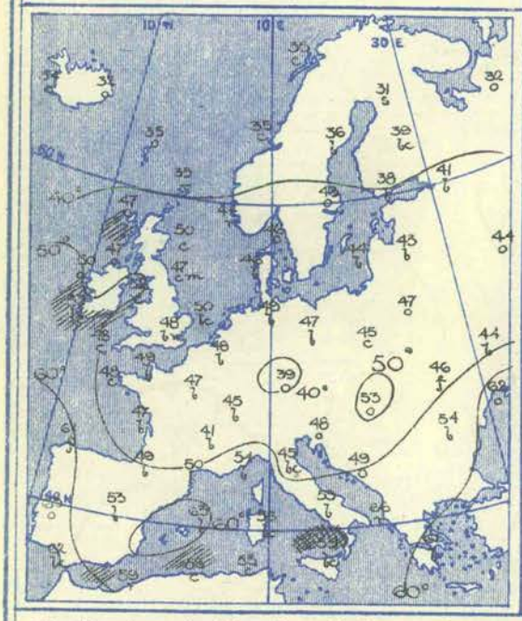
Temperature risen slightly in these Islands and central Europe, fallen in Italy. Morning readings not far below 70° in the south-west and south-east of Europe, but below 50° in many Italian localities, in France, central Europe, and nearly all parts of the United Kingdom. Below 40° in the north-east regions of the Continent as well as in the east of France. Maxima during day between 55° and 60° at many of our own stations and also in the north of France, but lower over Germany and Austria. Thermometer rising to above 70° in the extreme south of our area.

Wind in morning showing an anticyclonic movement over the central countries, and a cyclonic circulation over Italy and the surrounding regions. North-Westerly current strong on some shores of the Mediterranean, and a gale from the South-Eastward prevailing at San Fernando. A fresh to strong Southerly breeze general on our western coasts, and a fresh or strong breeze from East in Iceland. No change of a general character during day.

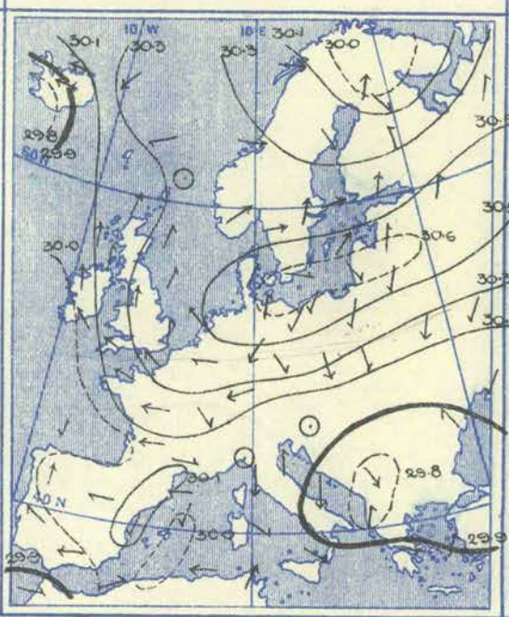
Barometer in morning above 30·4 ins. in a large high pressure system extending from the south-east of England to central Russia, and above 30·3 ins. in northern Iceland; below 29·8 ins. in a depression centred over the Adriatic, and nearly as low in the far north of the Continent. High pressure system increasing in intensity during day, but pressure giving way slightly in the south-west of these Islands and rather more decidedly over the Bay of Biscay regions.

Tuesday, 4th May, 1909.

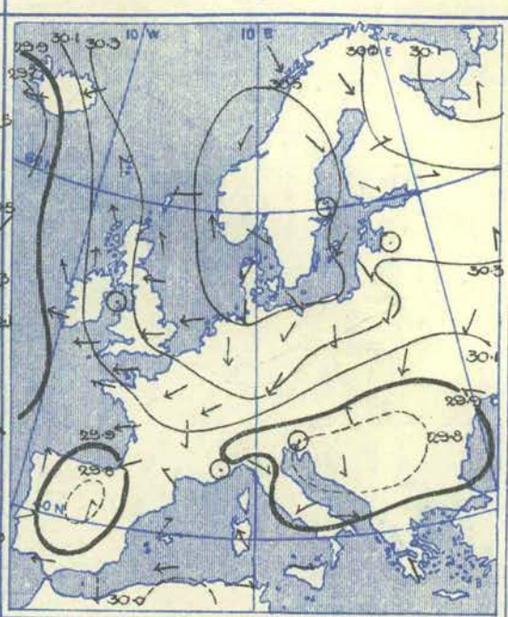
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over the greater part of our area, but rainy at Sumburgh Head and Skudesnaes, as well as at Brindisi, and snow falling at Ulleaborg Heavy rain later in Austria-Hungary and at Brindisi, and a considerable fall of rain or snow at Archangel. Continuing very fine generally.

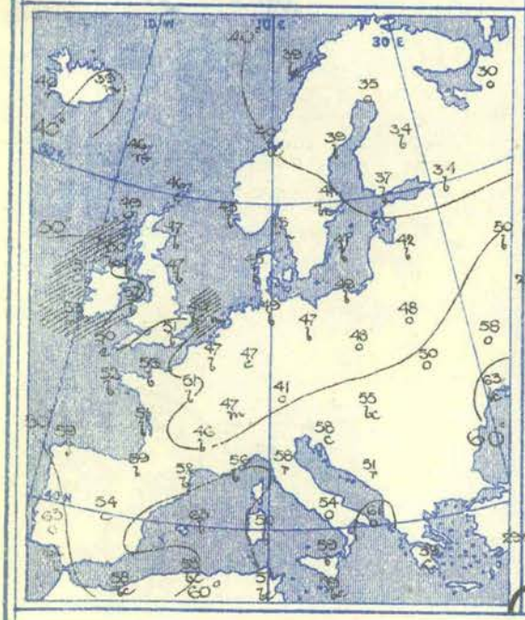
Temperature risen a little in most regions. Morning readings about 60° at a few stations in the extreme south, about 50° or a few degrees below over the major portion of our area, and as low as 32° in the extreme north. Rising later to above 65° at some places in the north and north-west of these Islands and to above 70° in the south of Europe, but only touching 53° on the east coast of England, and 50° at Berlin and Vienna. Minima during night mostly above 40° in this country, but only 37° at some midland stations.

Wind in morning showing a very extensive anticyclonic circulation affecting nearly the whole of our area, and a cyclonic movement over the south-eastern quarter. South-Easterly current moderate to strong on our south-west coasts, and that from the South-Westward strong in the south of Scandinavia. An Easterly gale prevailing in the west of Iceland. Little change during day; increasing somewhat from East on the south coast of England and the north coast of France.

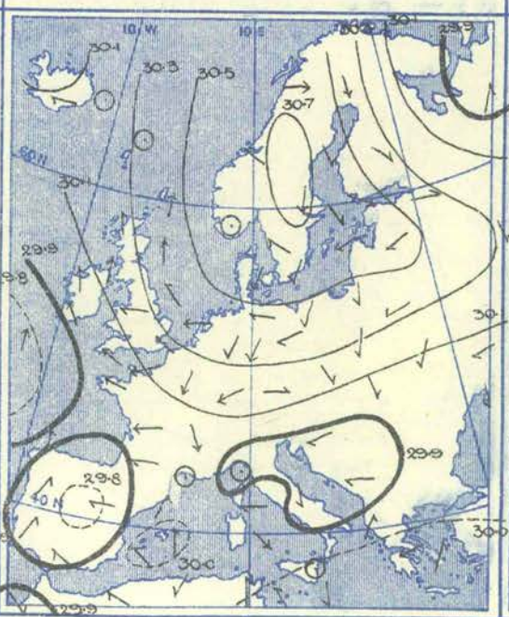
Barometer in morning above 30·6 ins. in a very large high pressure system having its maximum over the Baltic region. Below 30·0 ins. in Lapland, and below 29·8 ins. both over the southern portion of the Adriatic and in the south-west of Iceland. Anticyclone undergoing much modification in form and some decrease in intensity during day. Pressure falling rather decidedly over the Spanish Peninsula, France, and the Bay of Biscay, and steadily in the south of these Islands.

Wednesday, 5th May, 1909.

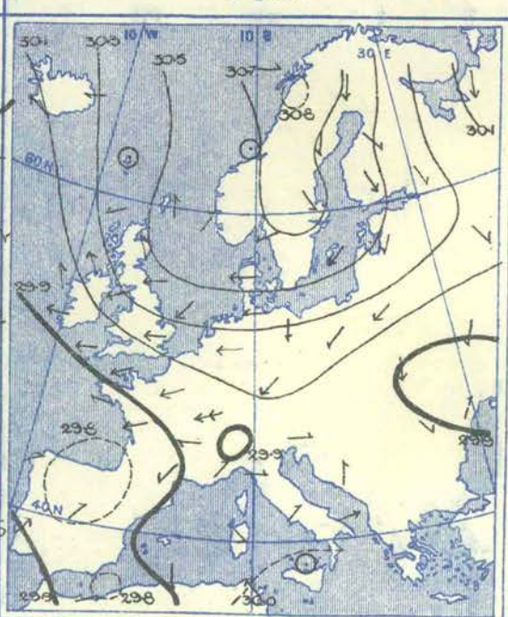
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very fine and bright in nearly all parts of these Islands and the major portion of the Continent, but showery at Valencia, rainy in some Italian localities, and cloudy or overcast in Austria and Poland. Snow falling at Karlstad. Very large quantities of rain later in Austria-Hungary, and some slight falls in Italy and southern Russia.

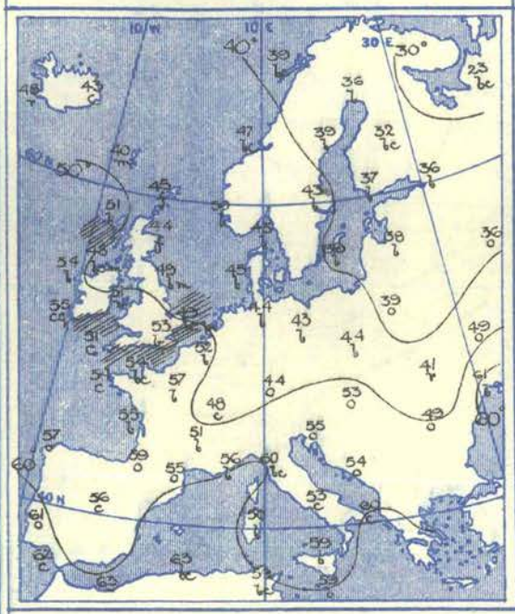
Temperature showing no general change. Morning readings ranging from 60° or above at a few places in the south to a little below 50° over most of our area, to below 40° in the north-east and to 30° at Archangel. Maxima during day 70° or slightly higher in some parts of Wales and Scotland, and about 65° in many parts of these Islands. Thermometer rising to above 70° very generally in the south of our area, and touching 82° at Madrid. Day cold in Austria.

Wind in morning circulating anticyclonically over all the northern regions except the north of Russia, and cyclonically in the south of Europe and over the Mediterranean. Easterly current blowing a fresh to strong breeze over England and the adjacent portion of the Continent, and South-Easterly to Southerly current blowing with nearly as great force in Ireland. No change of importance during day.

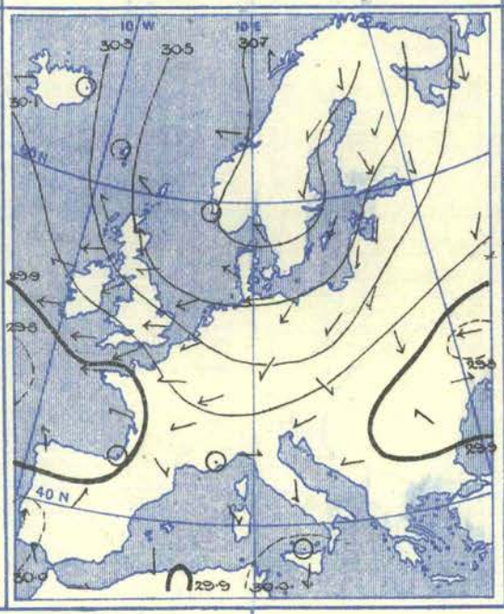
Barometer in morning above 30·7 ins. in a very extensive high pressure system centred over Scandinavia, and relatively low in depressions in the north-east and south of our area, as well as over the Atlantic off the south-west coast of this country. No change in the general distribution of pressure during day, but mercury falling over France, the Bay of Biscay, and the south of England.

Thursday, 6th May, 1909.

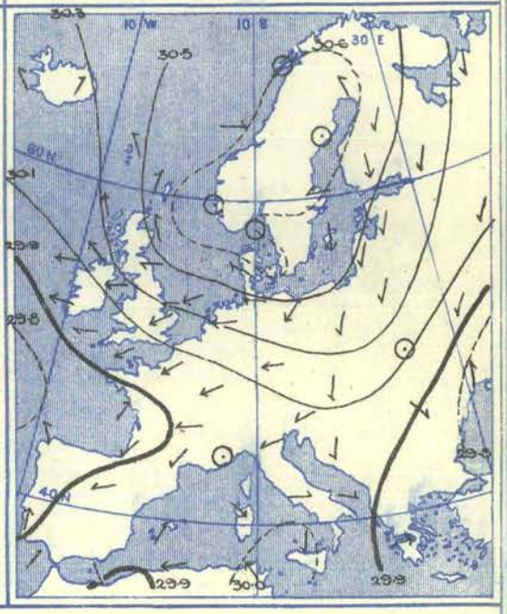
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in some parts of Austria and Poland, and also in the west of Algeria, but very fine and bright over our area as a whole. Some rain later in Hungary, Transylvania, Greece, and some parts of the Spanish Peninsula, but continuing very fine generally.

Temperature changed little and rather irregularly. Morning readings about 50° in these Islands and their immediate neighbourhood, and also in many localities further south; above 60° on some shores of the Black Sea and Mediterranean, and as high as 69° at Sfax. Below 40° over a very wide area in the north-east of Europe, and as low as 23° at Archangel. Rising later to about 70° at some of our western, southern, and northern stations, but scarcely exceeding 50° along the east coast. Maxima above 70° in most southern regions, and as high as 80° at Madrid, but below 60° in many parts of central Europe.

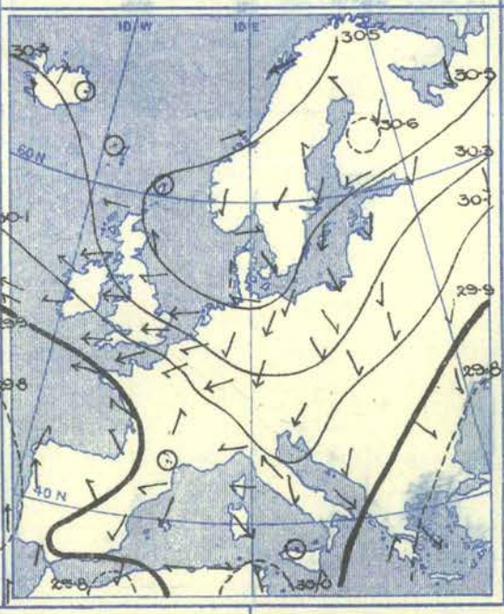
Wind in morning cyclonic in the south-west and east of our area, anticyclonic elsewhere. Easterly current still strong in the south of these Islands and the adjacent part of the Continent, but little force over our area generally. No important change during day.

Barometer in morning above 30·7 ins. in a very large anticyclone centred over Scandinavia and covering most of our area. Below 29·9 ins. in a shallow depression over the Bay of Biscay, and below 29·8 ins. in a disturbance over Little Russia. High pressure system giving way somewhat during day, but no material alteration taking place in the general distribution, Mercury remaining almost stationary over the United Kingdom and its neighbourhood.

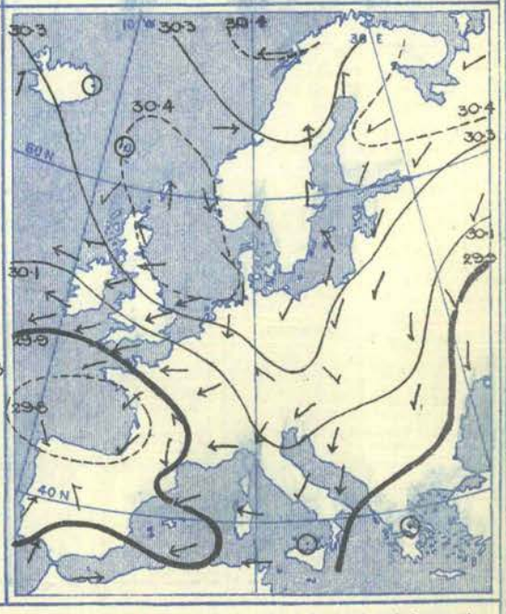
Friday, 7th May, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast in several parts of the Spanish Peninsula, Italy, and Russia, and snow falling at St. Petersburg; very fine and bright in all other regions. Some rain and thunder later in Algeria, and rain in various parts of the Spanish Peninsula, Transylvania, and Scandinavia.

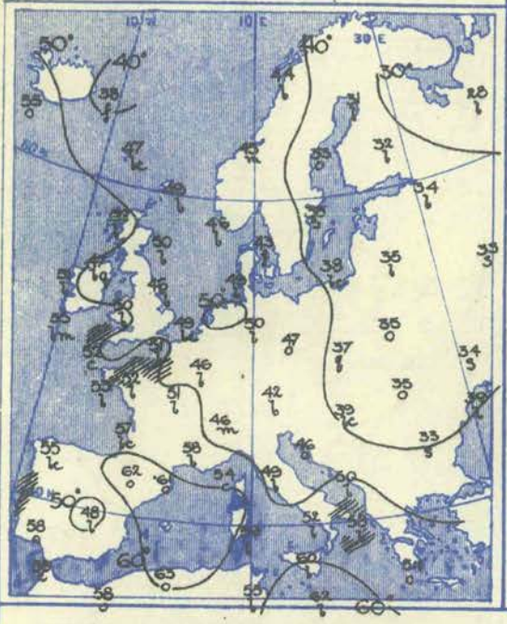
Temperature fallen in some Continental districts, changed little over this country. Morning readings about 50° at most of our own stations, below 40° in Poland and some German localities, and much below 32° in the far north-east of our area. As high as 67° at Sfax and about 60° over a large portion of the Mediterranean area. Rising during day to about 65° in various parts of the United Kingdom, and to between 70° and 80° in the west of France, but remaining low over the central countries, and only touching 61° at Madrid.

Wind in morning fresh to strong from the Eastward over the south of England and the north of France, and moderate to fresh from between East and South-East over the Kingdom generally; light or moderate and mainly between North-West and North-East over the east and south of our area, and Southerly to South-Easterly over the Spanish Peninsula. Not much general change later, but a high wind from West setting in at Christiansund, and a strong breeze from South at Hernösand.

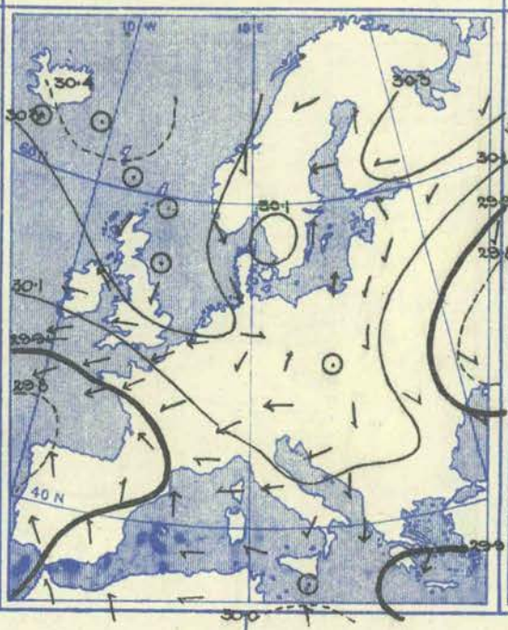
Barometer in morning above 30·5 ins. in a large anticyclone covering most of Scandinavia, Finland, the North Sea, and Denmark; below 29·8 ins. over the Black Sea, and also in a large shallow depression in the extreme south-west of our area. A rather decided fall of the barometer in progress in the north of Scandinavia and a rise in Iceland. Pressure giving way very decidedly later over Norway and Sweden and the regions immediately surrounding, and a depression beginning to appear in that region. Little change elsewhere.

Saturday, 8th May, 1909.

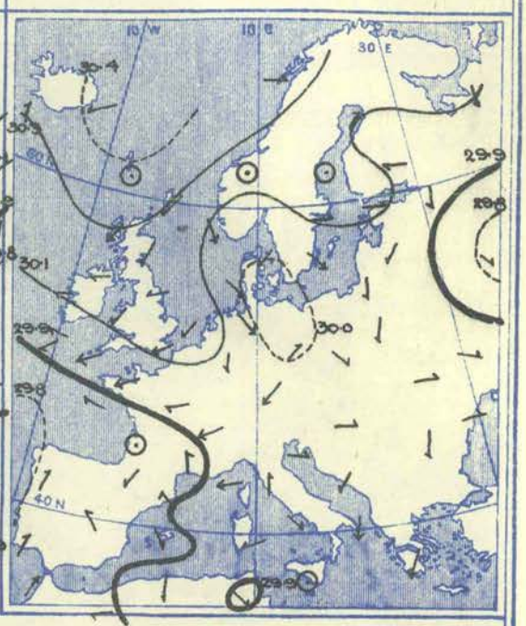
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over our area generally, but snow falling at Stockholm, Moscow, and Kieff, and rain at Barcelona, and sky cloudy or overcast in a few other localities. Rain later in central Russia, Algeria, and the Spanish Peninsula, and also in some parts of Scandinavia and France. Continuing very bright over these Islands.

Temperature fallen in most regions. Morning readings very little above 32° in the east and north of our area, and below it at Archangel and Haparanda. About 40° in Hungary, about 50° over most of this country and the adjacent portion of the Continent, and between 55° and 65° at many stations on the shores of the Mediterranean. Maxima during day above 70° over the major portion of France and southern Europe, and about 70° on the coast of Wales. Below 55° on our east coast, and below 50° in some German and Austrian localities.

Wind in morning circulating cyclonically over Scandinavia and the Baltic and also over the Bay of Biscay region. A fresh to strong breeze from the Eastward prevailing over the English Channel and its neighbourhood. Not much force elsewhere, but a strong North-Westerly breeze blowing at Skudesnaes. Very little change during day.

Barometer in morning above 30·3 ins. in the north of Russia and above 30·4 ins. over Iceland; relatively high in an arm extending thence across the North Sea. Below 30·1 ins. in a depression over the south of Scandinavia, and lower in depressions in the east, south-east, and south-west of our area. Scandinavian depression moving southwards during day and increasing somewhat in intensity. Pressure decreasing decidedly in northern Russia, and an irregular fall taking place over the United Kingdom.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres	Remarks.
	1909.												
1	May 3rd, 10.43 a.m. to 1.5 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 55% 190°, 3	282° 55% 190°, 9	280° 55% 192°, 11	274° 53% 185°, 14	**272°** 50% 182°, 16			**272°** 49% 184°, 16	1,600	Weather almost cloudless and warmer. Clouds Ci.-Cu. 1. Wind very variable in direction and force.
2	May 4th, 9.26 a.m. to 2.18 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	286° 55% 168°, 6	285° 50% 165°, 8	284° 48% 162°, 9	278° 25% 153°, 17	276° 15% 156°, 18	**273°** 15% 153°, 18	**271°** 12% 153°, 19	**270°** 11% 153°, 20	2,800	Weather fine and warm. Clouds Ci.-S. 3. Wind light and variable.
3	May 5th, 9.24 a.m. to 1.35 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 45% 110°, 10	285° 45% 110°, 11	285° 45% 105°, 13	280° 40% 108°, 17	278° 7% 110°, 20	275° 5% 110°, 20	**272°** 4% 112°, 20	**267°** 3% 112°, 22	3,800	Weather cloudless and clear. Wind gusty.
4	May 5th, 9.55 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	287° 60% 45°, 7		284° 70% 70°, 15	280° 30% 70°, 18				281° 30% 70°, 20	1,300	Cloudless. Inversion at 900 m. Increase of wind above the inversion.
5	May 5th, 2.45 p.m. to 4.20 p.m.	Aldershot.	Temperature Humidity .. Wind	288° 80% 70°, —		285° 60% —°, 20					283° 60% 180°, 20	900	Cloudless, very strong wind.
6	May 6th, about 10.20 a.m.	Aldershot.	Temperature Humidity .. Wind	295° 90°, *—							288°	800	Cloudless. Very strong and gusty wind.
7	May 6th, 10.20 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	292° 60% 80°, 8	290° 60% 80°, 17	287·5° 70% 80°, 17					284·5° 75% 80°, 18	910	Cloudless. Extremely gusty wind, reaching 26 m. per s. in the gusts.
8	May 6th, 11.35 a.m. to 12.25 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	289° 55% 79°, 9	288° 56% 79°, 11	287° 57% 79°, 13	282° 57% 81°, 19				279° 55% 82°, 21	1,400	Weather cloudless. Wind very gusty. Instruments damaged on landing.
9	May 7th, 9.45 a.m. to 10.40 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	289·5° 60% 80°, 8	288·5° 60% 80°, 15	286° 60% 90°, 17	283° 50% 90°, 18						Cloudless. Very gusty wind.
10	May 7th, 10.35 a.m. to 11.27 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 48% 90°, 10	285° 47% 95°, 11	284° 47% 98°, 11	278° 45% 116°, 17				277° 42% 112°, 19	1,200	Weather cloudless. Wind very uncertain and gusty. Instrument damaged on landing.
11	May 7th, 2.33 p.m. to 3.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	289° 38% 90°, 9	288° 38% 86°, 12	287° 38% 84°, 14	280° 47% 74°, 20	277° 35% 82°, 20			276° 30% 80°, 20	1,650	Weather bright, wind gusty. Instrument blown loose on kite at max. height; only ascending readings given.
12	May 8th, 10.26 a.m. to 1.25 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	288° 44% 117°, 5	285° 45% 113°, 6	284° 45% 110°, 7	278° 50% 100°, 10	277° 28% 105°, 11	276° 26% 105°, 13				Weather cloudless. Wind extraordinarily variable in direction and force.

63, Victoria Street, London, S.W. *May 12th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) No. 19. NINETEENTH WEEK, SUNDAY MAY 9TH TO SATURDAY MAY 15TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—Although the general condition was not at all settled, there was little precipitation over the Kingdom as a whole, and all districts except the north-east of Great Britain experienced long periods during which the sky was nearly cloudless. In the latter half of the week snow showers occurred in several northern localities, and on Thursday night a little snow was also observed as far south as Rothamsted and London. Faint aurora was visible at Aberdeen and also at Falmouth early on Friday night.

Temperature was below the average, the deficit being between 3° and 4° in some northern and eastern districts of Great Britain, and nearly 3° in England S.E. The highest of the maxima were generally registered on the 11th, and ranged from 74° in Midland Counties and 73° in England S.E. and S.W. to 65° in the English Channel and Scotland E., and to 63° in Scotland N. Along the east coast of Great Britain the maxima were mostly very low—generally below 50°—during the latter end of the week. The lowest of the minima occurred, with few exceptions, either on the 13th or 15th, and were low for the time of year in all districts. In Scotland E. and W. the thermometer fell to 23° and 24° respectively, in Scotland N. to 26°, and in England S.W. and Ireland N. to 27°, readings of 30° or less being recorded in all other districts except the English Channel, where the lowest point reached was 36°. The lowest grass readings reported were 13° at Llangammarch Wells, 17° at West Linton, 20° at Birmingham and Hereford, 21° at Burnley, and between 22° and 26° at many other stations.

Mean Temperature of the Sea.—Except on the north-east coast of Great Britain the water was warmer than during the corresponding week of last year. The actual values for the week varied from about 55° at Seafield, 54° at Cleggan, and 53° at Teelin, Salcombe, Newquay, and Margate, to about 45°·5 at Scarborough and Aberdeen, and to 43°·4 at Burnmouth.

Rainfall was less than the average in all districts, the deficiency being large except in the north and east of Scotland. In England S.W. and the English Channel the week was rainless.

Bright Sunshine exceeded the average in all districts except Scotland E. and England N.E., the excess being large in the south and west. The percentage of the possible duration ranged from 80 in the English Channel, 75 in England S.W., 68 in Ireland S., and 64 in England S.E., to 43 in England E., to below 40 in the north and east of Scotland, and to 33 in England N.E.

Barometer and Wind.—At the commencement of the week the barometer was highest in the Icelandic region and lowest to the south-westward of this country and over Germany, and the wind blew a light to moderate breeze between North and East. On Monday the anticyclone extended over these Islands, but during the subsequent days the area of maximum pressure extended from Iceland over the Atlantic off the north-west and west coasts of the United Kingdom, while a depression of increasing intensity, after reaching a position off the north of Scotland from the north of Ireland, travelled eastwards to Norway, and subsequently north-eastward to Finland. In the rear of this system small secondary disturbances moved in a southerly direction over Great Britain and the North Sea. The general direction of the wind continued between North and North-West, but sometimes drew into West for a time on the east coast and to East on the south coast.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 140.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Moderate	Deficient	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Moderate	Light	Light	Light	Light	Light	Light	Nought	Light	Very light	Nought
	Sunshine ...	Moderate	Moderate	Scanty	Moderate	Abundant	Abundant	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 10 weeks from Mar. 7th, 1909.	Warmth ...	3 * 3	4 * 6	4 * 2	3 * 1	4 * 2	3 * 3	5 * 1	5 * 2	4 * 3	5 * 2	4 * 3	4 * 1
	Rainfall ...	2 * 5	6 * 2	6 * 3	5 * 3	4 * 3	4 * 3	3 * 4	5 * 4	3 * 3	4 * 4	4 * 4	4 * 3
	Sunshine ...	2 * 1	3 * 3	3 * 4	4 * 4	5 * 3	5 * 3	5 * 3	6 * 2	5 * 2	5 * 2	6 * 2	4 * 4

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	5 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

7902/450 Wy. & S. Ltd. 5—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

NINETEENTH WEEK—May 9th to May 15th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	63	26	49·9	36·3	42·7	– 3·9	29	– 13	16	+ 9	5	+ 1	0·62	– 0·04	42	+ 4	37	+ 4
Eastern																		
1. SCOTLAND, EAST .. .	65	23	51·8	35·9	43·4	– 3·6	35	– 12	17	+ 9	4	+ 1	0·40	– 0·07	40	– 1	36	– 1
2. ENGLAND, N.E.	72	30	53·2	37·8	45·1	– 2·6	39	– 6	12	+ 8	2	– 1	0·13	– 0·29	35	– 9	33	– 8
3. ENGLAND, EAST	72	29	55·4	37·1	45·7	– 3·8	46	– 12	14	+ 10	2	– 1	0·06	– 0·33	46	0	43	0
4. MIDLAND COUNTIES	74	29	58·3	37·0	47·0	– 2·4	56	– 4	14	+ 9	2	– 1	0·08	– 0·33	49	+ 7	46	+ 7
5. ENGLAND, S.E.	73	28	58·1	39·0	48·0	– 2·8	55	– 9	8	+ 6	1	– 2	0·09	– 0·25	67	+ 21	64	+20
Western																		
6. SCOTLAND, WEST	71	24	55·5	38·0	46·2	– 2·3	46	– 7	11	+ 8	2	– 2	0·20	– 0·45	58	+ 15	53	+13
7. ENGLAND, N.W.	69	29	55·1	38·0	46·1	– 3·0	46	– 7	11	+ 9	2	– 1	0·13	– 0·36	67	+ 23	63	+21
8. ENGLAND, S.W.	73	27	59·5	40·2	49·3	– 0·9	59	– 1	5	+ 4	0	– 2	0·00	– 0·46	79	+ 31	75	+30
9. IRELAND, NORTH	72	27	56·5	39·0	47·2	– 1·8	49	– 4	8	+ 6	3	– 1	0·11	– 0·44	68	+ 26	63	+24
10. IRELAND, SOUTH	76	29	61·1	39·2	49·5	– 1·0	64	+ 3	8	+ 7	1	– 2	0·05	– 0·48	72	+ 27	68	+26
11. ENGLISH CHANNEL	65	36	58·7	45·2	51·6	– 0·2	67	– 1	0	0	0	– 3	0·00	– 0·35	84	+ 26	80	+25

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 10 Weeks, March 7th to May 15th, 1909.

0. SCOTLAND, NORTH	72	20	*	*	*	*	224	– 6	220	+ 7	43	– 3	5·08	– 3·05	304	+ 15	32	+ 2
Eastern																		
1. SCOTLAND, EAST	75	7	*	*	*	*	256	– 29	270	+ 40	43	+ 5	7·26	+2·48	311	– 3	33	0
2. ENGLAND, N.E.	72	21	*	*	*	*	337	+ 52	183	+ 13	37	+ 2	5·18	+1·30	382	+ 41	41	+ 4
3. ENGLAND, EAST	72	21	*	*	*	*	385	+ 15	146	– 32	35	+ 2	3·60	– 0·02	450	+ 99	49	+11
4. MIDLAND COUNTIES	74	17	*	*	*	*	425	+ 42	190	0	33	+ 1	3·89	– 0·14	418	+ 99	45	+11
5. ENGLAND, S.E.	73	13	*	*	*	*	385	– 10	113	– 8	35	+ 4	4·18	+0·33	466	+114	51	+12
Western																		
6. SCOTLAND, WEST	74	19	*	*	*	*	329	+ 28	167	+ 10	34	– 5	6·61	– 0·45	366	+ 38	39	+ 4
7. ENGLAND, N.W.	74	19	*	*	*	*	361	+ 47	141	+ 8	35	– 1	5·60	+0·50	432	+114	47	+12
8. ENGLAND, SW.	74	12	*	*	*	*	375	– 2	96	– 4	39	+ 4	6·20	+0·59	437	+ 80	48	+ 9
9. IRELAND, NORTH	72	22	*	*	*	*	351	+ 21	116	– 10	42	0	5·81	+0·01	373	+ 63	40	+ 7
10. IRELAND, SOUTH	76	23	*	*	*	*	431	+ 31	88	– 5	45	+ 7	8·20	+1·93	407	+ 62	44	+ 7
11. ENGLISH CHANNEL	72	30	*	*	*	*	514	+ 72	26	– 4	38	+ 1	5·30	+0·68	497	+ 71	54	+ 8

THE YEAR.—Aggregates, &c., for the Period of 19 Weeks, January 3rd to May 15th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	268	– 22	529	– 14	88	– 4	14·00	– 5·09	401	+ 24	28	+ 2
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	295	– 58	664	+ 57	74	+ 1	12·11	+2·34	434	– 4	30	0
2. ENGLAND, N.E.	72	14	*	*	*	*	372	+ 7	578	+107	63	– 5	8·05	+0·78	528	+ 61	36	+ 4
3. ENGLAND, EAST	72	12	*	*	*	*	420	– 40	551	+ 34	65	– 2	5·85	– 1·14	621	+130	42	+ 9
4. MIDLAND COUNTIES	74	8	*	*	*	*	469	– 18	635	+109	58	– 7	6·82	– 1·39	562	+124	38	+ 9
5. ENGLAND, S.E.	73	0	*	*	*	*	449	– 64	482	+102	60	– 3	7·13	– 1·17	554	+168	44	+11
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	383	– 7	442	+ 23	69	– 10	14·70	– 1·21	480	+ 46	33	+ 3
7. ENGLAND, N.W.	74	10	*	*	*	*	419	+ 11	465	+ 81	66	– 6	10·30	– 0·47	593	+162	40	+11
8. ENGLAND, S.W.	74	7	*	*	*	*	459	– 69	390	+ 91	67	– 4	10·11	– 2·50	626	+133	42	+ 9
9 IRELAND, NORTH	72	14	*	*	*	*	469	+ 14	315	– 28	85	+ 1	12·06	– 0·27	482	+ 54	33	+ 4
10. IRELAND, SOUTH	76	15	*	*	*	*	599	+ 13	265	+ 7	82	+ 6	13·05	– 0·77	544	+ 64	37	+ 4
11. ENGLISH CHANNEL	72	25	*	*	*	*	689	+ 28	151	+ 42	68	– 10	9·46	– 1·07	712	+118	48	+ 8

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ⚓ is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.				
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	NAMES OF STATIONS.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*47*	*9, 10, 11th*	*30*	*11th*	*44·2*	*35·7*	*39·7*	—	*6*	*22*	*7*	*0·95*	—	*38·7*	—	*33*	—	*Balta Sound.*
	a Sumburgh Head	47	9th, 12th	28	14th	44·3	35·4	39·6	- 4·5	6	28	7	1·26	+ 0·80	38·7	- 0·6	34	- 1	Deerness.
	a Stornoway	55	10th	32	15th	48·9	38·3	43·8	- 2·6	25	10	5	0·42	- 0·16	57·3	+15·8	51	+14	Stornoway.
	a Castlebay, Barra Isd.	*61*	*9th*	*34*	*15th*	*50·9*	*41·6*	*46·0*	*- 3·2*	*30*	*1*	*5*	*0·27*	—	*68·3*	—	*62*	—	*Castlebay.*
	a Wick	54	10th	31	15th	48·7	37·4	42·7	- 3·3	24	13	6	0·50	+ 0·05	*	*	*	*	
	p Strathpeffer	59	10th, 11th	30	15th	52·7	36·8	44·3	- 2·5	38	15	5	0·23	- 0·21	34·7	- 2·8	31	- 3	Strathpeffer.
	p Glencarron S	62	10th	26	15th	50·3	34·2	41·8	- 3·9	23	30	4	0·95	- 0·13	*	*	*	*	
	p Fort Augustus S	58	11th	27	15th	50·6	35·1	42·4	- 4·3	32	19	5	0·55	+ 0·32	35·6	+ 5·9	32	+ 5	Fort Augustus.
	p Fort William S	63	9th	26	15th	53·7	36·9	44·8	- 3·4	41	14	3	0·44	- 0·41	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	59	11th	31	15th	49·8	36·0	42·5	- 4·8	29	17	5	1·14	- 0·74	*33·5*	—	*30*	—	*Gordon Castle.*
	a Nairn	57	11th	30	15th	49·4	36·3	42·5	- 4·8	27	16	5	0·61	+ 0·24	36·2	—	33	—	Nairn.
	a Aberdeen	55	11th	33	15th	49·3	38·9	43·8	- 2·7	26	9	5	0·38	- 0·11	41·8	+ 0·8	38	+ 1	Aberdeen.
	a Balmoral S	64	11th	25	14th	54·4	30·7	41·8	- 2·5	35	43	5	0·21	- 0·31	33·9	—	31	—	Crathes S.
	p Crieff S	65	10th, 11th	28	15th	56·4	35·6	45·4	- 2·9	51	18	4	0·08	- 0·45	48·3	—	44	—	Balruddery
	a Leith S	62	11th	32	15th	52·1	39·6	45·5	- 2·7	35	7	2	0·22	- 0·13	33·6	- 1·4	31	- 1	Edinburgh.
	a West Linton S	60	10th	23	15th	50·5	34·2	41·9	- 3·3	24	30	3	0·38	—	*33·7*	—	*31*	—	*West Linton.*
	p Marchmont S	64	11th	28	15th	52·7	35·6	43·6	- 2·6	38	18	2	0·17	- 0·37	45·9	+ 7·4	42	+ 7	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle	58	11th	30	15th	51·3	38·4	44·5	- 2·4	33	10	1	0·10	- 0·38	38·1	—	35	—	Cockle Park.
	a Shields	63	11th	30	15th	50·3	37·6	43·6	- 3·6	30	12	2	0·19	- 0·18	*38·4*	+ *1·4*	*30*	+ *1*	*Newcastle.*
	p Durham M	70	11th	31	15th	53·2	36·3	44·2	- 3·0	39	16	2	0·09	- 0·31	37·7	+ 1·0	35	+ 1	Durham.
	p Rounton M	70	11th	32	13th	52·8	35·6	43·7	- 3·1	39	18	2	0·2·	- 0·17	*	*	*	*	
	p Scarborough M	64	11th	35	15th	53·1	40·0	46·2	- 1·6	38	6	2	0·07	- 0·33	39·5	—	37	—	Scarborough.
	p York	71	11th	34	13th, 15th	56·6	38·8	47·2	- 2·4	50	9	2	0·23	- 0·20	31·7	- 6·3	29	- 6	York.
	a Spurn Head	65	11th	37	15th	51·7	41·3	46·2	- 2·3	32	2	2	0·16	- 0·16	*	*	*	*	
	a Lincoln	72	11th	31	13th	54·6	36·9	45·2	- 4·8	44	14	2	0·10	- 0·30	32·4	—	30	—	Skegness.
	a Fulbeck	72	11th	31	13th	55·5	35·4	44·9	- 4·6	48	18	2	0·05	- 0·36	32·1	—	30	—	Rauceby.
															51·4	—	*49*	—	*Lowestoft.*
3. ENGLAND, E.	*p* Cromer	69	11th	37	11th	54·2	39·6	46·5	- 1·7	42	7	1	0·01	—	42·7	—	40	—	Cromer.
	p Hillington M	72	11th	29	9th, 11th	54·9	33·5	43·6	- 5·9	47	24	2	0·09	- 0·31	38·4	- 5·5	36	- 5	Hillington.
	a Yarmouth	64	12th	34	14th	52·0	39·8	45·4	- 3·0	34	7	2	0·03	- 0·35	45·4	—	43	—	Yarmouth.
	a Norwich	70	11th	31	11th	55·8	36·0	45·3	- 3·7	48	17	3	0·13		*	*	*	*	
	p Geldeston	68	12th	31	14th	55·5	36·2	45·3	- 4·1	47	16	2	0·04	- 0·35	40·2	- 6·3	38	- 6	Geldeston.
	p Cambridge	71	11th	29	9th	56·4	35·1	45·1	- 5·4	51	19	2	0·04	- 0·35	40·8	- 3·0	39	- 3	Cambridge.
	a Felixstowe	*69*	*12th*	*34*	*9th, 11th*	*55·4*	*37·6*	*46·0*	*- 3·5*	*46*	*12*	*2*	*0·04*	—	*48·3*	—	*46*	—	*Felixstowe.*
	a Clacton-on-Sea	70	12th	36	13th	54·4	39·9	46·7	- 2·4	42	6	1	0·01	—	46·5	—	44	—	Clacton.
	a Rothamsted	69	11th	31	11th	57·5	35·1	45·6	- 3·9	54	19	2	0·08	- 0·34	52·7	+10·8	50	+10	Rothamsted.
	a Shoeburyness	*70*	*12th*	*35*	*11th, 13th*	*57·4*	*39·0*	*47·7*	*- 3·8*	*53*	*8*	*0*	*0·00*	*- 0·26*	*55·9*	—	*53*	—	*Southend.*
	p Tottenham	70	12th	36	11, 13, 15th	58·2	38·9	48·0	- 2·7	55	9	1	0·08	—	59·0	—	56	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	68	11th	31	15th	54·6	36·2	44·9	- 2·6	45	16	2	0·20	- 0·28	42·6	—	39	—	Harrogate.
	a Bawtry	71	11th	32	13th	59·0	37·0	47·3	- 2·2	58	14	2	0·19	- 0·20	35·0	- 1·6	33	- 2	Worksop.
	p Buxton M	*67*	*11th*	*30*	*13th*	*54·1*	*33·7*	*43·3*	*- 2·7*	*44*	*23*	*4*	*0·26*	*- 0·42*	*47·9*	—	*45*	—	*Buxton.*
	a Nottingham	72	11th	34	9th, 13th	56·1	38·4	46·7	- 2·8	48	10	4	0·05	- 0·34	39·0	—	36	—	Nottingham.
	p Birmingham, Edgbsn	73	11th	34	15th	56·4	39·3	47·3	- 2·1	48	8	3	0·05	- 0·40	35·5	—	34	—	Birmingham.
	p Raunds M	73	11th	29	9, 11, 13th	58·7	33·8	45·5	- 4·2	59	23	2	0·02	—	*	*	*	*	
	a Oxford	72	11th	34	15th	59·4	38·1	48·1	- 2·4	59	11	1	0·04	- 0·34	60·9	+18·9	58	+18	Oxford.
	a Cheadle M	70	11th	31	13th	54·7	38·0	45·9	- 2·3	44	11	3	0·13	- 0·33	34·8	—	33	—	Sheffield.
	p Shrewsbury	74	11th	30	13th	60·2	35·9	47·3	- 2·9	63	17	1	0·03	—	*	*	*	*	
	a Hereford M	74	11th	30	15th	60·7	35·7	47·5	- 3·0	65	18	2	0·04	- 0·41	*	*	*	*	
	a Cirencester	71	11th	33	11th, 15th	59·5	36·4	47·3	- 1·8	61	16	2	0·08	- 0·37	66·6	+22·5	63	+21	Cirencester.
	a Bath	70	11th	32	15th	61·7	38·0	49·1	- 1·7	67	11	0	0·00	- 0·44	77·9	—	74	—	Bath.
															61·2	—	*58*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	70	12th	36	11th, 15th	58·3	39·9	48·1	- 2·8	55	8	1	0·11	- 0·25	66·4	+23·5	63	+22	Kew.
	a Marlborough	70	11th, 12th	28	15th	60·1	32·7	45·6	- 3·3	53	0	0	0·00	- 0·43	64·2	+24·4	61	+23	Marlborough.
	a Margate	69	12th	40	15th	57·0	43·0	49·6	- 0·5	59	15	0	0·00	- 0·33	56·3	+13·8	54	+13	Margate.
	a Wisley, Surrey	72	12th	32	9th	59·2	36·8	47·3	- 3·8	61	23	2	0·09	—	68·4	—	65	—	Wisley.
	a Swarraton M	69	12th	30	11th	59·2	33·7	45·7	- 3·5	55	14	2	0·14	- 0·31	73·4	—	70	—	Worthing.
	a Tunbridge Wells M	71	12th	34	11, 14, 15th	57·9	37·0	46·8	- 3·1	55	14	3	0·16	- 0·24	67·2	+22·6	64	+21	Tunbridge Wells.
	a Dungeness	57	12th	37	11th, 15th	53·7	41·9	47·5	- 2·4	39	0	1	0·01	- 0·27	56·5	—	54	—	Littlestone.
	p Hastings	63	12th	39	13, 14, 15th	56·3	40·9	48·1	- 2·4	47	3	2	0·14	- 0·22	*65·8*	*+16·8*	*63*	*+15*	*Hastings.*
	p Southampton	73	12th	36	15th	61·1	41·3	50·6	- 1·7	63	2	0	0·00	- 0·44	74·0	+27·3	71	+26	Southampton.
	a Ventnor	66	12th	38	15th	58·1	43·6	50·4	- 1·1	59	0	1	0·27	- 0·10	78·6	+28·8	75	+28	Ventnor.
															68·9	+19·4	66	+19	Eastbourne.
LONDON	*a Westminster*	*71*	*12th*	*38*	*11th, 15th*	*60·0*	*40·9*	*49·9*	*- 1·5*	*60*	*3*	*1*	*0·08*	*- 0·28*	*57·5*	*+23·4*	*55*	*+21*	*Westminster.*
	a Greenwich	*74*	*12th*	*34*	*11th*	*60·1*	*38·5*	*48·7*	*- 2·7*	*62*	*10*	*2*	*0·10*	*- 0·25*	*62·7*	*+22·7*	*60*	*+22*	*Greenwich.*
6. a, SCOTLAND. W.	*p* Laudale	70	9th	27	15th	54·5	38·1	45·8	- 2·9	43	11	3	0·34	- 0·56	*	*	*	*	
	a Poltalloch S	70	9th	24	15th	55·6	37·3	45·9	- 2·8	47	13	4	0·33	- 0·27	*	*	*	*	
	p Glasgow	62	10th	31	15th	53·7	40·1	46·5	- 2·1	39	5	3	0·17	- 0·37	46·3	+11·1	43	+10	Glasgow.
	p Rothesay S	64	9th	30	15th	56·0	40·0	47·5	- 1·2	47	6	3	0·30	- 0·35	*	*	*	*	
	a Kilmarnock													—		—		—	*Kilmarnock.*
6.	*a* Colmonell	66	9th	29	15th	56·1	36·9	45·9	- 2·8	49	14	2	0·11	- 0·46	*	*	*	*	
	p Dumfries	71	9th	30	15th	57·9	37·3	47·0	- 2·2	55	13	0	0·00	- 0·55	*	*	*	*	
	p Cally, Gatehouse S	64	11th	25	15th	57·9	34·5	45·5	- 3·1	56	21	3	0·24	- 0·46	*	*	*	*	
b, ISLE OF MAN	*p* Douglas	57	11th, 12th	34	15th	52·1	39·4	45·4	- 3·0	35	7	1	0·14	- 0·44	68·6	+19·6	64	+18	Douglas.
															73·0	—	68	—	Hoylake.
7. a, ENGLAND, N.W.	*p* Aspatria	58	10th, 11th	30	15th	55·0	37·2	45·6	- 2·2	45	13	2	0·16	- 0·39	57·1	—	53	—	Aspatria.
	p Newton Rigg	65	11th	29	15th	57·1	34·2	45·0	- 2·2	54	22	2	0·34	- 0·19	60·5	+18·3	56	+17	Newton Rigg.
	p Stonyhurst	61	11th	32	13th	54·1	36·8	44·9	- 3·5	42	15	3	0·22	- 0·41	60·9	+19·2	56	+18	Stonyhurst.
	p Blackpool M	62	9th	32	15th	52·6	35·6	43·6	- 5·5	38	18	3	0·12	- 0·35	67·2	+24·0	62	+22	Blackpool.
	p M'nch'ster, Prestwich	66	11th	32	13th	55·5	36·1	45·2	- 3·4	47	17	3	0·14	- 0·41	*47·1*	*+10·7*	*44*	*+10*	*Prestwich.*
	a Liverpool (Bidston)	60	9th, 11th	36	15th	53·9	41·3	47·2	- 2·3	39	2	1	0·07	- 0·34	*74·8*	—	*70*	—	*Liverpool.*
	a Hawarden Bridge	65	11th	34	11th, 13th	56·0	39·1	47·0	- 3·6	47	8	2	0·14	- 0·23	*71·1*	*+25·3*	*66*	*+23*	*Southport.*
															72·0	—	*67*	—	*Rhyl.*
b, NORTH WALES	*p* Llandudno M	61	11th	37	13th	55·0	41·2	47·7	- 2·1	43	2	1	0·02	- 0·40	75·0	+31·2	70	+29	Llandudno.
	a Holyhead	59	9th, 11th	39	15th	53·7	43·1	48·1	- 1·1	43	0	2	0·05	- 0·40	79·5	—	75	—	Aberdovey.
	p Bettws-y-Coed	69	11th	31	15th	58·4	35·4	46·2	- 3·4	57	18	2	0·08	—	62·6	—	59	—	Bettws-y-Coed.
															76·8	—	73	—	Aberystwyth.
8. a, SOUTH WALES	*a* Llangammarch Wells	70	11th	27	15th	60·2	31·8	45·2	- 3·0	65	29	1	0·01	—	63·1	—	60	—	Llangammarch Wells.
	a Pembroke	61	9th	33	14th	54·6	42·3	48·1	- 1·2	43	0	0	0·00	- 0·44	83·9	+35·9	79	+34	Pembroke.
	a Cardiff	65	11th, 12th	34	15th	59·0	38·9	48·4	- 2·8	58	9	1	0·01	- 0·54	*68·4*	—	*65*	—	*Cardiff.*
															82·4	*+34·4*	*78*	*+32*	*Tenby.*
	a Clifton	68	11th, 12th	37	15th	61·8	41·9	51·3	+ 0·1	66	0	0	0·00	- 0·50	*69·3*	—	*66*	—	*Clifton.*
	a Shaftesbury M	68	12th	35	13th, 15th	59·7	39·0	48·7	- 0·5	60	8	0	0·00	- 0·47	*	*	*	*	
	a Arlington	68	11th	35	15th	60·0	38·9	48·8	- 0·1	61	9	0	0·00	- 0·64	86·4	+38·9	82	+37	Newquay.
b, ENGLAND, S.W.	*a* Cullompton	72	12th	36	12th	64·2	38·4	50·5	- 0·1	75	10	0	0·00	- 0·49	73·8	+30·8	70	+29	Cullompton.
	a Portland Bill	59	12th	40	13th	55·9	43·3	49·2	- 1·2	50	0	0	0·00	—	*80·8*	—	*77*	—	*Weymouth.*
	p Plymouth	73	12th	40	14th	61·2	43·1	51·6	+ 0·1	67	0	0	0·03	- 0·47	84·0	+36·5	81	+35	Plymouth.
	p Falmouth	68	12th	41	15th	58·1	44·8	51·1	+ 0·4	64	0	0	0·00	- 0·50	81·8	+30·8	79	+30	Falmouth.
															73·4	*+24·7*	*70*	*+24*	*Torquay.*
9. IRELAND, N.	*a* Malin Head	60	9th, 10th	38	15th	52·1	42·7	47·1	- 1·0	36	0	4	0·41	- 0·06	*	*	*	*	
	a Blacksod Point	68	9th	36	15th	56·1	43·0	49·2	- 0·4	59	0	3	0·03	- 0·60	*	*	*	*	
	p Markree Castle	71	9th	27	15th	58·4	35·4	46·2	- 2·3	57	18	3	0·09	- 0·51	69·3	+28·4	64	+26	Markree Castle.
	a Birr Castle	72	10th	29	14th, 15th	61·0	34·7	47·1	- 2·3	66	20	1	0·03	- 0·48	*57·1*	*+16·2*	*53*	*+15*	*Birr Castle.*
	p Armagh	71	10th	31	15th	59·4	36·7	47·4	- 1·1	60	15	2	0·07	- 0·47	66·1	+25·7	61	+24	Armagh.
	a Donaghadee	56	9th, 10th	37	14th	51·9	41·4	46·3	- 2·3	33	2	2	0·02	- 0·48	*	*	*	*	
10. IRELAND, S.	*p* Dublin, City	68	11th	34	15th	57·0	40·8	48·4	- 2·7	50	3	2	0·08	- 0·38	70·7	+24·9	66	+23	Phœnix Park.
	a Kilkenny	71	10th	32	14th, 15th	62·1	36·3	48·4	- 1·1	69	16	0	0·00	- 0·50	*	*	*	*	
	a Waterford	71	11th	32	14th	62·4	41·1	51·1	+ 1·1	67	3	0	0·00	- 0·52	*	*	*	*	
	a Birr Castle	72	10th	29	14th 15th,	61·0	34·7	47·1	- 2·3	66	20	1	0·03	- 0·48	57·1	+16·2	53	+15	Birr Castle.
	a Foynes	71	9th, 10th	33	14th	60·9	39·9	49·8	- 0·7	63	6	3	0·07	- 0·45	*	*	*	*	
b, West.	*a* Cahir M	69	9, 10, 11th	32	14th	62·3	36·7	48·7	- 1·0	69	15	1	0·17	—	*	*	*	*	
	a Killarney	76	10th	34	14th	65·9	38·4	51·3	+ 1·4	80	10	1	0·01	- 0·69	*	*	*	*	
	a Valencia	71	9th	38	14th	59·1	41·3	49·7	- 1·0	57	2	1	0·09	- 0·66	82·6	+36·2	78	+34	Valencia.
	a Roche's Point	68	11th	37	14th	59·1	43·9	51·0	+ 0·4	63	0	0	0·00	- 0·57	77·0	—	73	—	Ballinacurra.
11. ENGLISH CHANNEL	*a* Scilly, St. Mary's	60	11th, 12th	48	9, 14, 15th	57·7	49·0	53·1	+ 1·9	78	0	0	0·00	- 0·39	83·4	+32·9	80	+32	Scilly.
	a Jersey, St. Aubins	64	9th	36	14th, 15th	59·6	42·4	50·5	- 1·6	60	0	0	0·00	- 0·46	84·9	+31·5	82	+30	St. Heliers.
	a Guernsey	65	12th	40	11th, 15th	58·8	44·3	51·1	- 0·5	64	0	0	0·00	- 0·45	82·5	+26·5	79	+26	Guernsey.

Bournemouth, 79·0 hrs., 75 %; Bognor, hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	44·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	44·6
	Crathes	4	22	47·2	45·1
	Balmoral	6	22	—	—
	West Linton	5	17	—	—
	Marchmont	5	25	48·7	—
2.	Cockle Park	1	26	46·5	45·5
	Durham	1	30	—	—
	York	—	—	49·8	47·1
	Hull	4	29	48·6	45·6
	Lincoln	—	—	48·5	47·0
	Rauceby	4	24	51·4	48·2
3.	Norwich	5	27	—	—
	Yarmouth	—	—	52·9	50·7
	Lowestoft	1	29	50·7	48·8
	Cambridge	6	22	50·8	49·7
	Clacton-on-Sea	2	28	51·0	50·3
	Southend	0	37	53·7	—
	Tottenham	0	31	—	49·8
4.	Harrogate	3	28	46·9	46·1
	Huddersfield	2	29	49·6	44·9
	Buxton	5	26	48·8	45·3
	Sheffield	3	26	49·0	46·1
	Nottingham	5	27	48·8	47·5
	Birmingham	4	20	47·2	45·8
	Oxford	4	25	—	—
	Hereford	5	20	—	—
	Cirencester	1	30	—	—
5.	Margate	0	37	50·5	49·1
	Greenwich	4	22	—	—
	Westminster	1	30	—	—
	Kew	5	25	51·4	49·0
	Canterbury	1	29	52·7	50·3
	Tunbridge Wells	4	27	52·7	—
	Wisley	5	24	52·3	49·9
	Worthing	0	31	53·0	50·3
	Portsmouth	1	30	55·1	51·9
6.	Glasgow	1	23	—	—
	Rothesay	—	—	—	47·0
	Colmonel	2	25	—	—
	Dumfries	—	—	—	—
	Douglas	0	31	—	—
7.	Aspatria	3	24	—	—
	Newton Rigg	4	26	50·1	46·0
	Burnley	6	21	48·7	45·3
	Southport	6	22	51·9	50·3
	Manchester City	1	29	49·0	47·7
	Bettws-y-Coed	1	30	48·7	47·0
8.	Llangammarch Wells	7	13	51·0	47·2
	Cardiff	2	30	52·3	49·0
	Clifton	0	32	—	—
	Bath	—	—	54·1	51·0
	Plymouth	0	35	55·1	—
9.	Armagh	4	26	52·8	48·9
	Markree	5	22	—	—
10.	Dublin, Trin. Coll.	1	29	52·3	49·8
11.	Guernsey, Brooklyn	0	35	54·9	51·7

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	45	45	45·0
	Kirkwall	49	45	47·7
	Wick	49	48	49·0
SCOTLAND, E.	Cromarty	50	43	47·7
	Pennan Bay	49	46	47·3
	Aberdeen, Cove Bay	47	43	45·5
ENGLAND, N.E.	Burnmouth, Berwick	45	42	43·4
	Scarborough	48	44	45·6
ENGLAND, E.	Shipwash Lightship	50	47	48·4
	Margate	56	52	53·1
ENGLAND, S.E.	Eastbourne‡	53	52	52·4
SCOTLAND, W.	Lamlash	—	—	—
	Ballantrae	51	48	49·2
ENGLAND, N.W.	Port Erin	50	48	48·6
ENGLAND, S.W.	Newquay	54	52	53·0
	Plymouth‡	53	51	52·3
	Salcombe	55	50	53·1
IRELAND, N.W.	Sheephaven	54	49	52·4
	Teelin	56	52	53·4
IRELAND, S.W.	Cleggan	56	51	54·0
	Seafield	61	51	55·1
IRELAND, E.				

‡ Only one observation each day.

Additional Observations in the Upper Air.

REGISTERING BALLOON ASCENTS.

1 PYRTON HILL, OXON. May 6th, 1909, 7.5 a.m.						2 PYRTON HILL, OXON. May 7th, 1909, 7.3 p.m.					
Height in Kilometres.	Pressure. Mm.	Pressure. Mgd.	Temperature. C°.	Temperature. A°.	Wind Direction and Velocity.	Height in Kilometres.	Pressure. Mm.	Pressure. Mgd.	Temperature. C°.	Temperature. A°	Wind Direction and Velocity.
Ground	753	1·003	10·5	283·5	90°, 10	Ground	752	1·003	12	285	80°, 10
0·5	721	·961	11·	284	110°, 14	0·5	723	·964	12	285	90°, 13
1·0	679	·905	9·5	282·5	105°, 15	1·0	680	·907	7·5	280·5	100°, 14
1·5	640	·853	7·5	280·5	115°, 15	1·5	641	·854	8·0	281	105°, 14
2·0	600	·800	6·	279	115°, 17	2·0	603	·804	7·5	280·5	110°, 15
2·5	565	·754	1·	274	120°, 19	2·5	567	·756	6	279	110°, 13
3·0	531	·708	−4·	269	115°, 19	3·0	533	·711	4	277	100°, 14
3·5	—	—	—	—	110°, 18	3·5	499	·665	1	274	95°, 16
4·0	—	—	—	—		4·0	468	·624	− 2	271	90°, 16
4·5	—	—	—	—		4·5	440	·587	− 6 or − 3·5	267 or 269·5	90°, 14
5·0	—	—	—	—		5·0	413	·551	− 7 or − 9	266 or 264	90°, 14
5·5	—	—	—	—		5·5	387	·516	−10 or −12	263 or 261	
6·0	—	—	—	—		6·0	363	·484	−15·5 or −18	257·5or 255	
6·5	333	·444	−25 ?	248 ?		6·5	339	·452	−19 or −21	254 or 252	
7·0	312	·416	−31	242		7·0	318	·424	− 22 or −24·5	251 or 248·5	
7·5	290	·387	−36	237		7·5	297	·396	−25·5 or −28	247·5or 245	
8·0	270	·360	−41	232		8·0	277	·369	−29 or −31·5	244 or 241·5	
8·5	252	·336	−46	227		8·5	258	·344	−32·5 or −35	240·5or 238	
9·0	234	·312	−50	223		9·0	242	·323	−36 or −38	237 or 235	
9·5	217	·289	−54	219		9·5	225	·300	−40 or −42·5	233 or 230·5	
10·0	202	·270	−58	215		10·0	207	·276	−43 or −45·5	230 or 227·5	
11·0	172	·230	−63	210		11·0	178	·238	−50 or −52	223 or 221	
12·0	145	·194	−64	209		12·0	153	·204	−55 or −54	218 or 219	
13·0	123	·164	−60	213		13·0	132	·176	−55	218	
14·0	106	·141	−60	213		14·0	113	·150	−50	223	
15·0	91	·121	−55	218		15·0	97	·129	−49	224	

No. 1.—Balloon fell at Besford, distant 88 kms., direction 304° (W 34° N). Wind observations with two theodolites. Ascensional velocity 3·2 m.p.s. observed. Mean temperature gradient: ground to 11·5 kms., 0·65° per 100 metres. Small inversion at 0·5 kms. Lowest temperature, 208° (− 65° C.) at 11·5 kms.; 223° (− 53° C.) at 15·6 kms. Cloudless. Trace indistinct from 3 to 6 kms.

No. 2.—Balloon fell at Farringdon, distant 38 kms., direction 270° (W.). Wind observations with two theodolites, for 22 and 25 minutes respectively. Ascensional velocity 3·1 m.p.s. Mean temperature gradient: ground to 12 kms., 0·56° per 100 metres. Inversion, 6° to 8° at 1·4 kms. Greatest height, 15·5 kms. Temperature, 225° (− 48° C.)

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

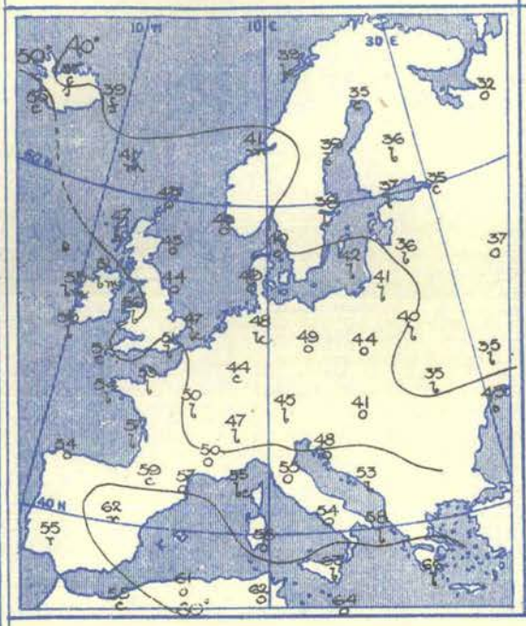
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

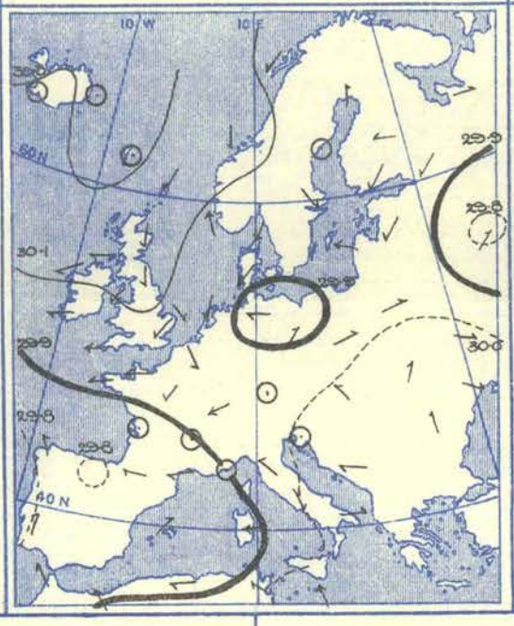
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 9th May, 1909.

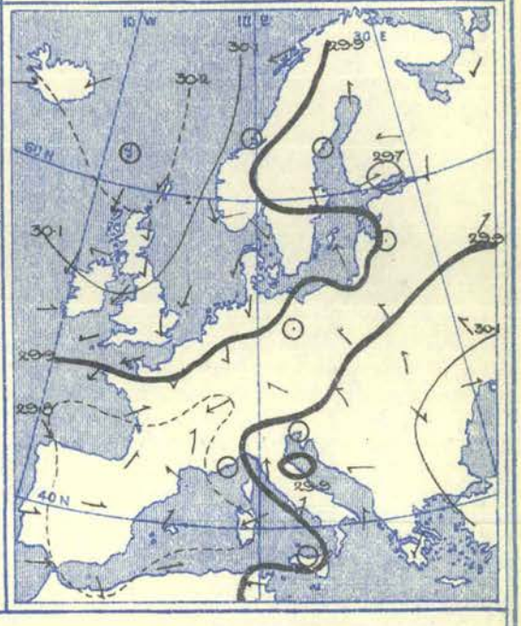
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of England, Ireland, France, and in some other localities, but cloudy or overcast over a large portion of our area. Rain falling at Madrid and Prague. Rain and thunderstorms later in many parts of France, and rain in many other districts over the southern half of the Continent, as well as in Norway.

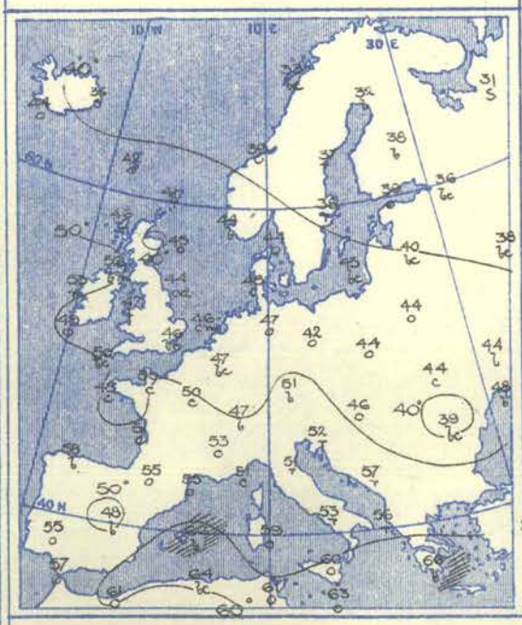
Temperature fallen over a considerable portion of our area. Readings in morning below 50° in most parts of Great Britain and over the larger part of the Continent, and below 35° in the north-east; above 50° in Ireland and the south of our area, and above 60° on some shores of the Mediterranean. Rising later to about 70° in Ireland and to above 60° in many English districts, but remaining below 50° at some of our east coast stations. Maxima below 70° over a large portion of southern Europe, and not much above it in Algeria.

Wind in morning light or moderate from some point between North and North-East over these Islands and their neighbourhood, a feeble cyclonic circulation prevailing over Germany and the Baltic region, and light, variable airs elsewhere. Little change occurring during day.

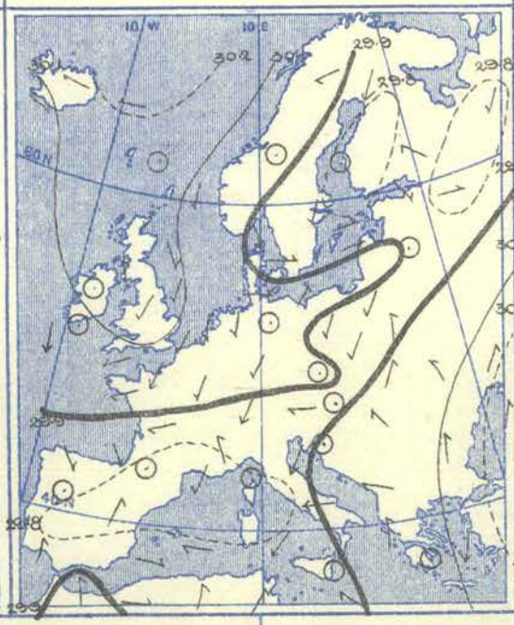
Barometer in morning above 30·3 ins. in an anticyclonic system to the northward of these Islands; below 29·9 ins. in a depression over Germany, and below 29·8 ins. in disturbances over Russia and to the westward of Portugal. Little modification taking place later in the distribution as a whole, but readings becoming rather lower in nearly all regions. A small minimum appearing over Italy and another over the Gulf of Finland

Monday, 10th May, 1909.

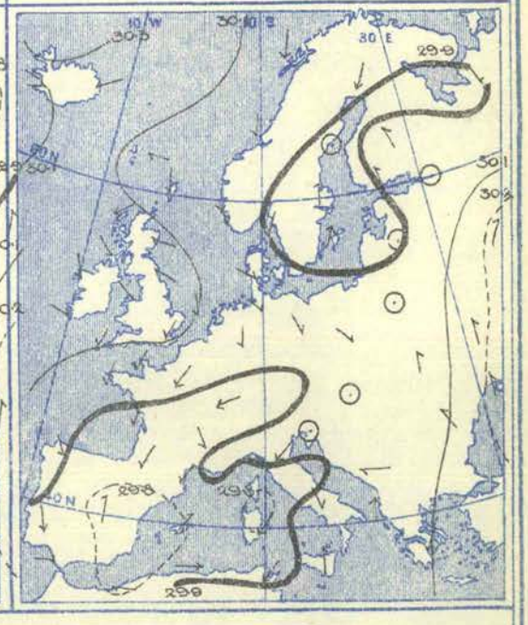
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy over Italy, the Adriatic, some parts of Poland and Sweden, and also at Sumburgh Head and Shields, and snow falling at Archangel; fair to fine and bright over Ireland, England, France, the Spanish Peninsula, and the greater portion of Russia. Heavy rain later at San Fernando, and considerable quantities at some other stations in the south of our area.

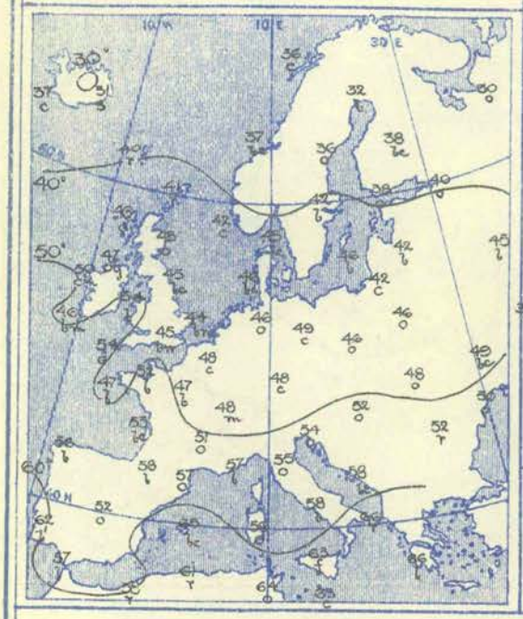
Temperature fallen over these Islands and their neighbourhood, changed little as a whole. Morning readings ranging from below 32° at Archangel and below 40° in the north-east generally to 45° in many parts of this country, and to above 50° in the far south of our area; highest values about 66°. Maxima during day between 70° and 75° at a few places in the far south, below 60° over most of Italy and central Europe, and only about 50° on the east coast of England. Thermometer rising to 72° at Birr Castle. Night colder than those immediately preceding over this country.

Wind in morning mainly anticyclonic over the Icelandic region and the United Kingdom and France, and generally cyclonic elsewhere. Northerly current strong at some Norwegian stations, but little force as a whole. Northerly wind increasing to a gale at Skudesnaes by evening, and a feeble cyclonic circulation setting in over the north and north-west of these Islands.

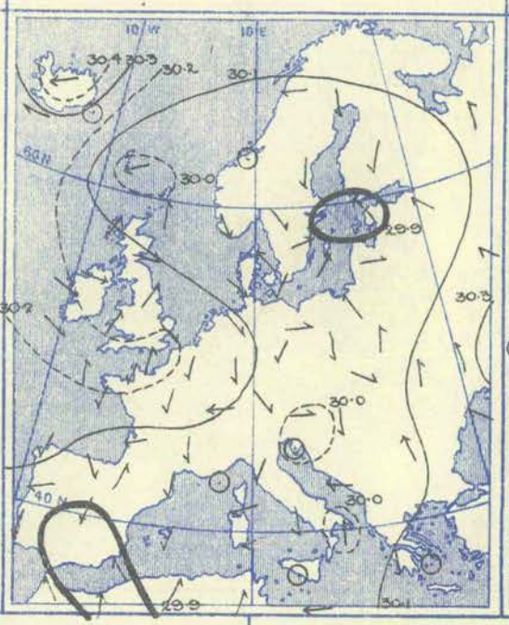
Barometer in morning above 30·2 ins. in the east of Iceland and relatively high over this country; above 30·2 ins. in the south of Russia. Below 29·8 ins. in two separate minima in the north of the Continent, and also in another disturbance in the south. Both high and low pressure systems undergoing considerable modification in form during day, and a very shallow depression forming over the north-west of these Islands.

Tuesday, 11th May, 1909.

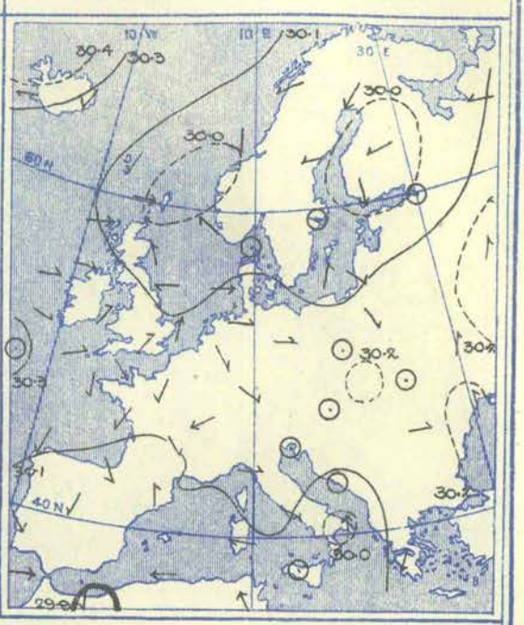
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in nearly all parts of Ireland, England, France, and the Mediterranean region, and in some localities elsewhere, but rainy on the shores of the Adriatic, on the coast of Algeria and at Alicante, as well as at Hermanstadt, Cracow, and to the northward of Scotland, and snow falling at Uleaborg. Some rain later in Scotland, Norway, Spain, Algeria, and at some scattered stations in other parts of our area.

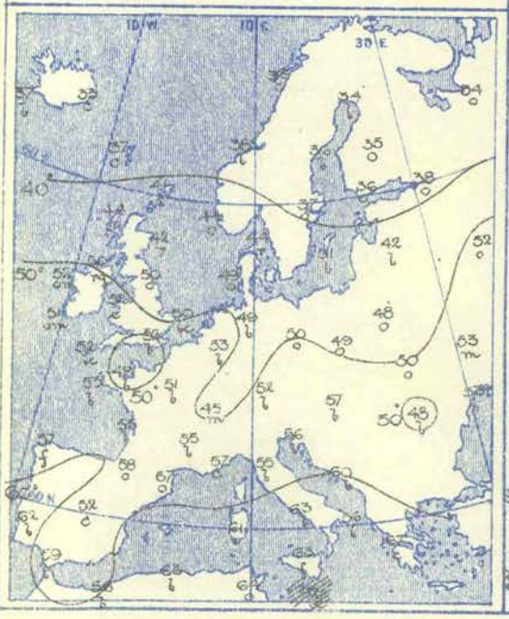
Temperature showing no general or decided change. Readings in morning 50° or a little below over a large portion of this country and central Europe, above 60° at many stations in the south of our area, and as high as 66° at Patras and Brindisi. Below 40° in the north of Europe, and below 32° in the far north of Russia. Rising to about 70° during day over the southern and central counties of England and at Skegness, and to about 75° at various places in the more southern regions of Europe, but readings scarcely exceeding 66° in Austria, and remaining below that figure in Germany.

Wind in morning cyclonic generally, the most important circulation being over northern Europe. A strong breeze from the North-Westward prevailing at Skudesnaes, but little force as a whole. Not much change later; winds becoming more cyclonic over England and the Low Countries.

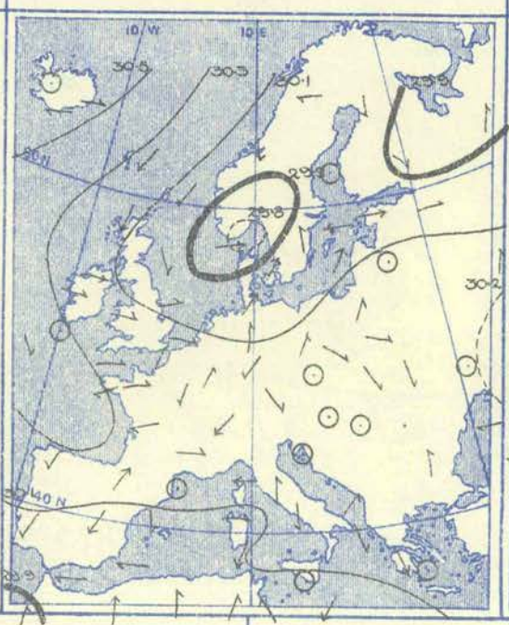
Barometer in morning above 30·2 ins. in the south of England and the nearer parts of the Continent, and also in the west of Ireland, and increasing to above 30·4 ins. in the north of Iceland. Below 29·9 ins. in a depression over the Gulf of Finland and in another system in the south-west of our area, and nearly as low in some other disturbances. An ill-defined depression appearing over the North Sea and England during day, and a shallow system off the north of Scotland moving slowly eastwards and becoming rather deeper. Little modification occurring in the general situation.

Wednesday, 12th May, 1909.

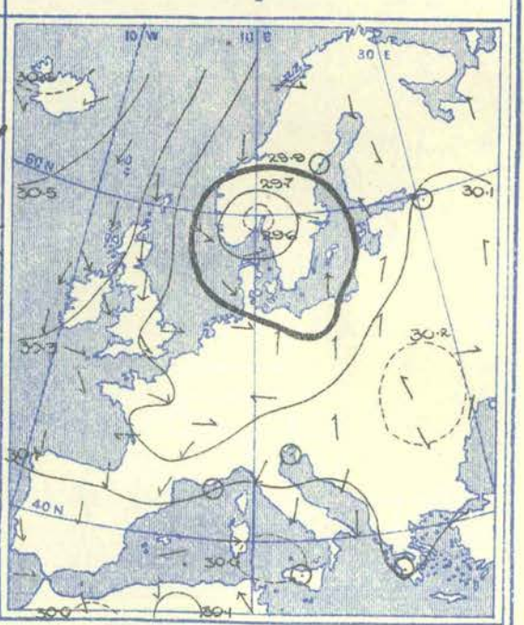
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine at most stations in the south of these Islands and the southern half of the Continent, but overcast in places, and rainy at Lugano, Barcelona, and Cagliari. Cloudy to dull over nearly all the more northern regions, with rain in the north of these Islands and in Denmark. Some rain later in the west and north of this country generally, considerable amounts in Spain and Scandinavia, and slight falls in some other regions.

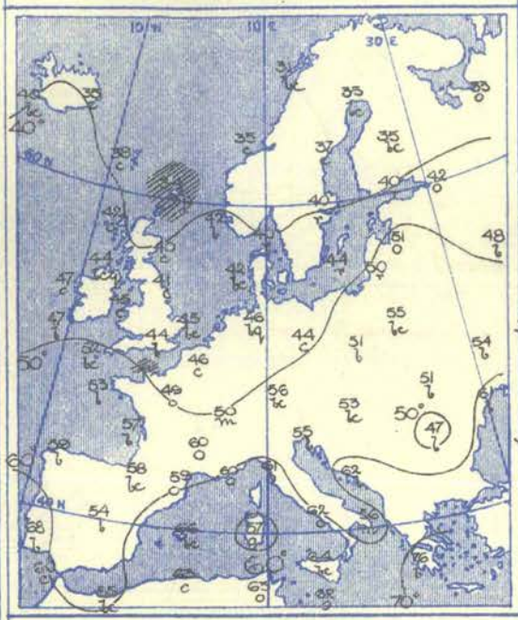
Temperature changed rather irregularly; risen in England. Readings in morning ranging from 67° at Patras and above 60° at many other southern stations to about 50° over a large portion of Ireland, England, France, and central Europe, and to below 35° at a few places in the far north of our area. Rising during day to 70° or rather higher in the south and south-west of England, but only touching 50° at some of our northern and north-eastern stations. Maxima above 70° at most places in the south of the Continent, and nearly 80° in Greece.

Wind in morning showing an extensive cyclonic movement over the greater part of our area, but force light to moderate generally. Increasing to a strong gale from North-West by evening on the south-west coast of Norway and to a strong breeze from South at Stockholm. Northerly wind becoming more pronounced in these Islands.

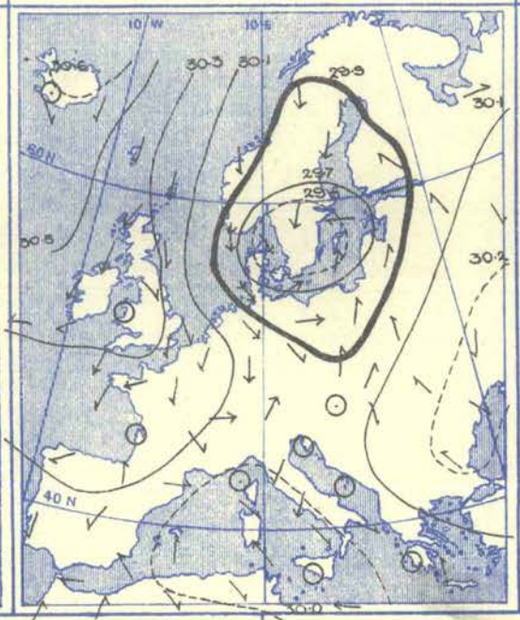
Barometer in morning above 30·5 ins. in Iceland, relatively high to the westward and south-westward of the United Kingdom and also in the south of Russia; below 29·9 ins. over Finland and the White Sea region, and below 29·8 ins. in a depression of increasing intensity centred over the south-west of Norway. Latter system growing much deeper by evening, and an ill-defined secondary moving southwards over England. Pressure increasing somewhat in Iceland and rather decidedly in the north of this country.

Thursday, 13th May, 1909.

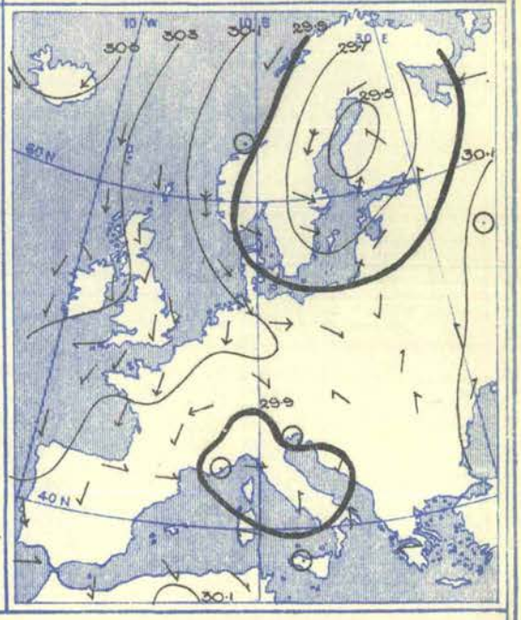
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in the Spanish Peninsula, most of Russia, and in some other regions, but very cloudy or quite overcast over a large portion of our area, with snow in Shetland, hail in Caithness, and rain over southern Scandinavia and the Baltic, as well as at Toulouse and Cagliari. Some rain later in many parts of these Islands and hail or snow in the far north. Rather heavy rain at Lugano, Cracow, and Nice, and also round about the Gulf of Finland.

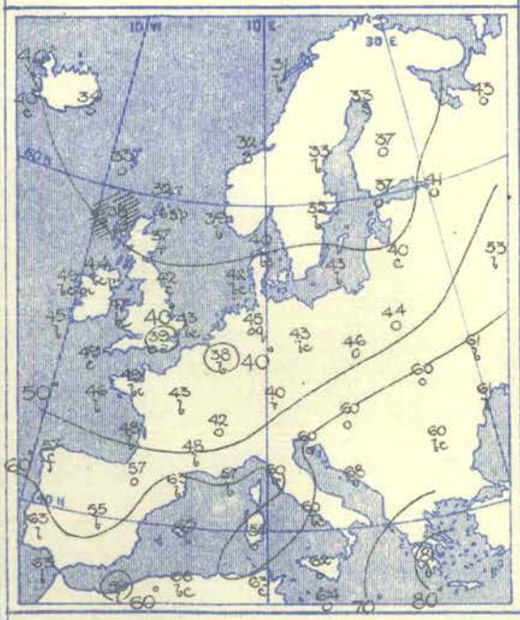
Temperature fallen in most regions, rather decidedly over these Islands. Morning readings below 40° in north Scotland, about 45° over Ireland and England, above 50° at most places in the southern half of our area, above 60° at many stations on the shores of the Mediterranean, and above 70° in Greece. Below 35° in the extreme north of Europe. Maxima during day below 50° at some of our own stations, and below 60° in nearly all parts of Germany; above 70° over southern Europe and in Algeria, and as high as 91° at Athens. Frost at night in various parts of these Islands; sheltered thermometer falling to 29° at Birr Castle, and to 28° at Sumburgh Head.

Wind in morning showing a very extensive cyclonic circulation over all the more northern countries; moderate in force in most localities, but blowing a gale from the North-Westward in the south of Norway and Jutland. Light or moderate anticyclonic breezes prevailing in the west of this country and also in Russia, and a feeble cyclonic movement over the Mediterranean. Not much change later; Northerly current blowing a gale at Hernösand.

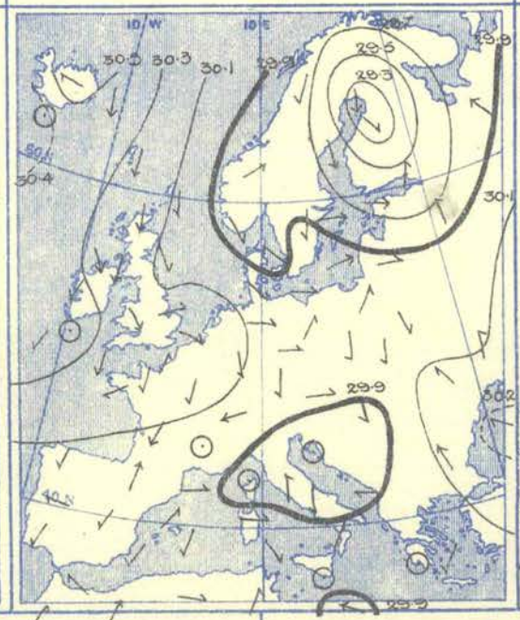
Barometer in morning above 30·5 ins. in Iceland and over the adjacent portion of the ocean, and above 30·2 ins. in the south of Russia; below 30·0 ins. in a large, shallow depression over the south of our area, and below 29·6 ins. in a more important system centred over the south of Sweden. Southern disturbance growing somewhat deeper during day, and that in the north moving north-eastwards and also increasing in intensity. Little change taking place in the general distribution of pressure.

Friday, 14th May, 1909.

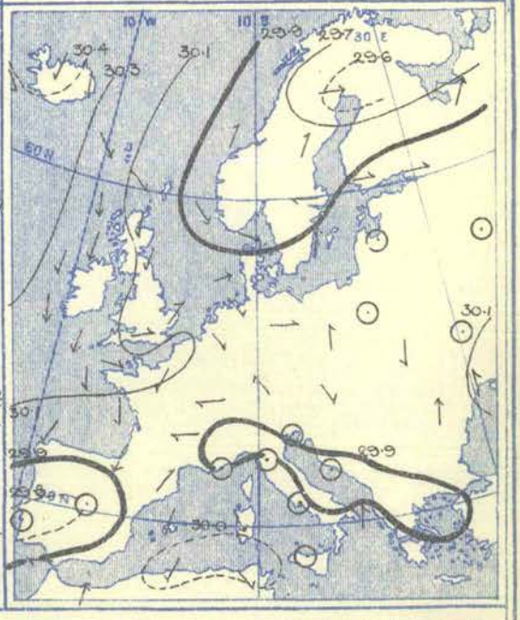
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine at most stations in the west of these Islands, the Spanish Peninsula, Algeria, and Russia. Very cloudy or overcast in nearly all other regions, with snow showers in Caithness and Shetland, showers of rain in some other parts of this country, and steady rain at various places in the central countries. Snow falling at Christiansund and in the north of Sweden. A little rain later in various parts of these Islands, and some snow in the north and at Buxton. Rather heavy rain falling in Poland.

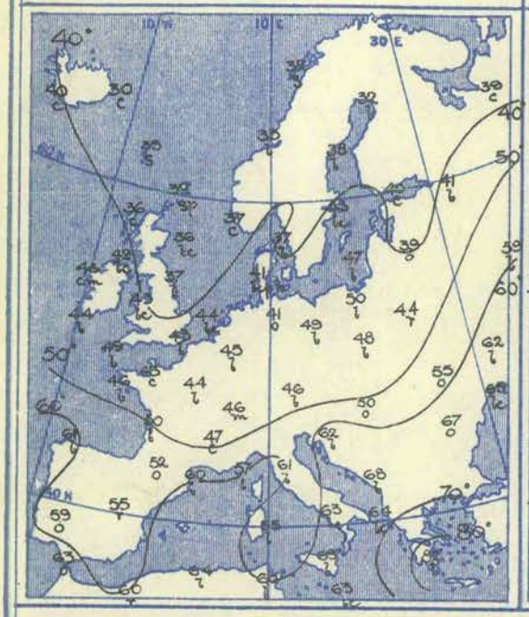
Temperature risen over Russia and in the east of our area generally, as well as at some southern stations fallen elsewhere. Morning readings about 80° in Greece, between 60° and 70° in several other southern localities; below 45° in various parts of central Europe, France, and the United Kingdom, and below 40° in Scotland and northern Europe. Maxima during day below 50° in many parts of the United Kingdom, and very little above it in Germany; above 70° in Hungary and southern Europe, and as high as 81° at Hermanstadt. Slight frost at night in several parts of these Islands.

Wind in morning varying considerably over England, but mainly Northerly in Ireland and Scotland, and North-Easterly over France and the Peninsula. A well-marked cyclonic movement shown over the northern countries of the Continent, and a feeble cyclonic circulation prevailing in the south. Northerly current strong in Sweden, and fresh in the Hebrides, but little force over our area as a whole. No decided change later in day.

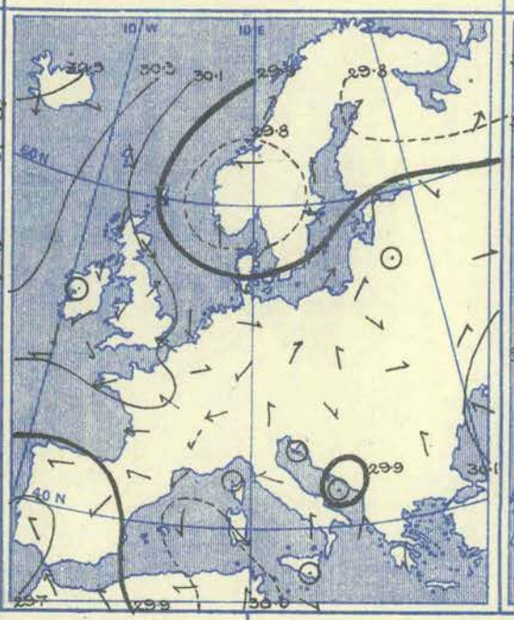
Barometer in morning ranging from above 30·4 ins. in Iceland and above 30·3 ins. off the west of these Islands to below 29·9 ins. in a depression over the north of Italy and the surrounding regions, and to below 29·3 ins. in a deeper system centred near Haparanda. Scarcely any change taking place in the general condition later in day, but a shallow disturbance moving southwards across England, and a depression appearing over Spain.

Saturday, 15th May, 1909.

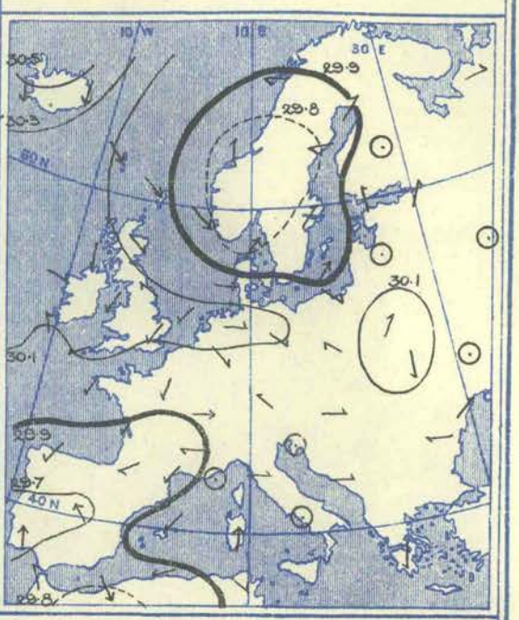
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the major portion of our area, but rain falling at Nemours and Madrid, Flushing, Copenhagen, and Helsingfors, hail at Fanö, and snow at Sumburgh Head and Thorshavn. Heavy snow, 0·74 in., at Sumburgh Head later, and slight hail or rain showers in a few other parts of these Islands. Continuing dry over nearly the whole of the Continent.

Temperature changed somewhat irregularly. Readings in morning below 40° in the northern half of Great Britain and the north-east and north of the Continent, and below 50° over central Europe and the greater part of France. As high as 59° at Moscow, and above 60° in the south of Russia; about 70° at a few places in the far south of our area, and above 80° at Patras. Maxima again below 50° at many of our eastern stations, and below 55° over this country generally. Below 60° in most parts of Germany and Austria, but above 70° at many places in the south of our area, and nearly 80° in places. Sharp frost at night in some northern localities; minimum 27° at Wick.

Wind in morning circulating cyclonically over nearly the whole of our area, the chief movement being in the north. Little force as a whole, but Northerly current blowing a strong breeze at Thorshavn, and a strong breeze from South East prevailing at Karlstad and also at San Fernando. Little change later, but a gale from North setting in in Iceland.

Barometer in morning above 30·5 ins. in the north of Iceland and above 30·2 ins. in the Black Sea region; below 29·8 ins. in a large depression over Norway, and below 29·7 ins. in another system in the extreme south-west of our area. No great modification occurring later in the general distribution, but barometer falling steadily over the Spanish Peninsula and France, and slowly in the west and north-west of these Islands.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1909.												
1	May 6th, 1.30 p.m. to 3.8 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	291° 70% 70°, 18	75°, 18?	80°, 18?					90°, 18?	about 800	Chart failed to turn. Wind estimated from pull. Lowest temp. 282°, lowest humidity 40%. Extremely gusty surface wind.
2	May 10th, 6.58 p.m. to 7.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282° 75% 165°, 3	281° 75% 170°, —	281° 75% 175°, —					280° 73% 184°, —	600	Weather still and hazy, but cloudless. Wind very light and variable.
3	May 11th, 11.30 a.m. to 4.45 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind .. .	288° 57% 294°, 5	287° 60% 285°, 7	286° 60% 282°, 8	282° 67% 272°, 11				270° 23% 236°, ?	3,000	Weather fine and bright. Wind steady. Clouds Cirrus and Stratus 0-1. Clock stopped at 1,200 m. up, so no intermediate readings given.
4	May 12th, 8.17 a.m. to 9.44 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity . Wind .. .	282° 95% 270°, 3	282° 94% 265°, 7	280° 94% 267°, 8	277° 98% 276°, 13	278° 95% —, 17			278° 98% —, 18	1,600	Weather cloudy and cold, rain later. Wind light and uncertain, to strong and gusty later.
5	May 12th, 10.10 a.m. to 12.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind .. .	292° 60% 270°, 7	290·5° 60% 270°, 12	288·5° 70% 280°, 12	283° 75% 290°, 12				288° 80% 300°, 16	1,350	Strong wind in the afternoon.
6	May 12th, 12.30 p.m. to 1.20 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	285° 90% 268°, 3	286° 80% 260°, 10	288° 60% 280°, 10					288° 52% 290°, 10	700	Sea fog till 11.30 a.m. and no wind. Cu.-Str. Most erratic wind below 100 m.
7	May 13th, 5.10 p.m. to 5.45 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	278° 83% 5°, 5	277° 85% 25°, 8	276° 86% 30°, 9					276° 87% 35°, 11	760	Wind velocity appeared to go up very fast above 1,600 m. Thunder clouds 10. Wind light and uncertain.
8	May 14th, 3.0 p.m. to 5.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	Thermograph not in working order 75% 316°, 7	75% 312°, 10	73% 310°, 12	77% 304°, 16	83% 302°, 17	75% 306°, 16	60% 314°, 17		2,500	Very stormy clouds, Nim. 10. Violent hail storm. Wind variable and gusty.
9	May 15th, 3.27 p.m. to 4.7 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind .. .	275° 62% 0°, 0·5	276° 62%	275° 62%	**270°** 63%				**267°** 62%	1,430	Dead calm, overcast, some snow. Clouds not reached, Cu.-Nim. 10.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9
No. of Kites or Balloons ..	—	1	3	1	2	1	1	2	1
Area of Surface (sq. m.) ..	—	—	23	7·9	15	7	7·9	15·8	—
Length of Wire (cub. m.) ..	—	20	—	—	—	—	—	—	26
Length of Wire (m.)	—	460	4,400	1,200	1,600	1,000	550	3,500	1,400

63, Victoria Street, London, S.W. *May 19th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) No. 20. TWENTIETH WEEK, SUNDAY MAY 16TH TO SATURDAY MAY 22ND, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—Over England the conditions were generally dry and bright, but rain fell occasionally in Ireland and Scotland, and some slight falls were experienced in most parts of England early in the week. Thunder and lightning occurred at Armagh on Monday, and thunder at Cahir. Thunder was heard also at Crathes and Gordon Castle on Tuesday, at Cahir on Wednesday, and at Liverpool on Saturday.

Temperature, after being somewhat low for a time, rose quickly and became high in all parts of the Kingdom. The means for the week were above the average except in Scotland and the north of Ireland, but the excess was not large. The highest of the maxima were recorded on the 21st or 22nd, and ranged from 82° in England E. and S.E. and the Midland Counties, and 81° in England S.W., to 71° in Ireland N., and to 70° in Scotland N. The lowest of the minima occurred early in the week, when the thermometer fell to 22° in Scotland E. (at West Linton on the 16th), 24° in Scotland W. (at Cally on the 16th), and England S.W. to between 27° and 31° over the Kingdom generally, and to 38° in the English Channel. The range of temperature during the week was unusually large in all districts. The lowest grass minima reported were 17° at West Linton and Birmingham, 18° at Southport, 19° at Cambridge, 20° at Greenwich, and 21° at Crathes and Balmoral.

Mean Temperature of the Sea was much lower than during the corresponding week of last year at most places on the east and north-east coasts, but rather higher on the south and west coasts. The values ranged from 54°·4 at Newquay, 53°·7 at Eastbourne, 53°·6 at Seafield, and about 53° at some other southern stations, to 44°·4 at Cromarty, and to 43°·2 at Burnmouth.

Rainfall was less than the average in all districts except Ireland N. The fall was slight in England, and at several stations the week was rainless.

Bright Sunshine was again much above the average in England, but in Ireland and the north and east of Scotland it was below it. The percentage of the possible duration ranged from 70 in England S.E., 66 in the English Channel, and a little above 60 in England E. and S.W., to 33 in Scotland N. and E., and to 26 in Ireland N.

Barometer and Wind.—The general distribution of pressure underwent several changes, although the barometrical movements were not as a rule very brisk. Pressure, which was highest over Iceland at the beginning of the period, subsequently gave way gradually and became low in that region, while it was sometimes highest to the southward, and sometimes to the eastward and north-eastward of this country. No depressions of importance passed over the United Kingdom, but towards the end of the week a large system was spreading in slowly from the Atlantic. The wind was generally very light in force and rather variable in direction. During the latter half of the period, however, it was mainly between South-West and South.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 140.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Unusual	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Unusual
	Rainfall ...	Moderate	Moderate	Light	Light	Light	Moderate	Moderate	Very light	Light	Moderate	Moderate	Light
	Sunshine ...	Moderate	Moderate	Abundant	Very abundant	Abundant	Very abundant	Moderate	Abundant	Abundant	Scanty	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 11 weeks from Mar. 7th, 1909.	Warmth ...	3 * 3	4 * 6	5 * 2	3 * 1	5 * 2	3 * 3	5 * 1	5 * 2	4 * 3	5 * 2	4 * 4	5 * 1
	Rainfall ...	2 * 5	6 * 2	6 * 4	5 * 4	4 * 4	4 * 3	3 * 4	5 * 5	3 * 4	4 * 4	4 * 4	4 * 4
	Sunshine ...	2 * 1	3 * 3	4 * 4	5 * 4	6 * 3	6 * 3	5 * 3	7 * 2	6 * 2	5 * 3	6 * 2	5 * 4

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	5 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

7912 450 Wy & S. Ltd. 5—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTIETH WEEK—May 16th to May 22nd, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees: Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	70	27	55·6	39·9	47·3	– 0·4	46	0	6	0	5	+ 1	0·61	– 0·01	38	– 2	33	– 2
Eastern																		
1. SCOTLAND, EAST	73	22	57·6	38·7	47·6	– 0·5	53	+ 1	9	+ 3	4	0	0·28	– 0·22	38	– 5	33	– 5
2. ENGLAND, N.E.	81	28	61·4	41·4	50·8	+ 1·9	64	+ 12	2	– 1	2	– 1	0·10	– 0·28	53	+ 8	48	+ 7
3. ENGLAND, EAST	82	27	64·0	41·1	51·8	+ 0·9	72	+ 6	3	0	2	– 1	0·16	– 0·27	68	+ 22	63	+20
4. MIDLAND COUNTIES	82	28	65·9	39·5	51·9	+ 1·1	80	+ 13	7	+ 3	1	– 2	0·14	– 0·34	62	+ 20	57	+18
5. ENGLAND, S.E.	82	30	65·0	42·7	53·2	+ 0·9	78	+ 4	0	– 1	2	– 1	0·18	– 0·23	75	+ 28	70	+26
Western																		
6. SCOTLAND, WEST	72	24	59·1	41·1	49·6	– 0·3	57	– 2	3	0	4	+ 1	0·61	– 0·05	50	+ 5	45	+ 4
7. ENGLAND, N.W.	79	27	61·5	41·7	51·0	+ 0·5	64	+ 2	1	0	2	– 1	0·09	– 0·41	57	+ 11	52	+10
8. ENGLAND, S.W.	81	24	62·5	42·5	51·9	+ 0·2	69	0	0	– 1	1	– 2	0·06	– 0·43	66	+ 18	61	+17
9. IRELAND, NORTH	71	29	58·7	42·4	50·0	– 0·2	56	– 4	0	– 1	4	0	0·58	– 0·04	29	– 15	26	–13
10. IRELAND, SOUTH	73	29	59·4	42·8	50·6	+ 1·1	60	– 9	0	– 1	3	– 1	0·49	– 0·05	43	– 4	39	– 4
11. ENGLISH CHANNEL	78	38	63·3	47·2	54·8	+ 1·8	90	+ 13	0	0	1	– 2	0·03	– 0·37	70	+ 13	66	+12

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 11 Weeks, March 7th to May 22nd, 1909.

0. SCOTLAND, NORTH	72	20	*	*	*	*	270	– 3	226	+ 7	48	– 2	5·69	–3·06	342	+ 14	32	+ 1
Eastern																		
1. SCOTLAND, EAST	75	7	*	*	*	*	309	– 28	279	+ 43	47	+ 5	7·54	+2·26	349	– 8	33	– 1
2. ENGLAND, N.E...	81	21	*	*	*	*	401	+ 64	185	+ 12	39	+ 1	5·28	+1·02	435	+ 49	42	+ 5
3. ENGLAND, EAST	82	21	*	*	*	*	457	+ 21	149	– 32	37	+ 1	3·76	– 0·29	518	+120	50	+12
4. MIDLAND COUNTIES.. ..	82	17	*	*	*	*	506	+ 56	197	+ 3	34	– 1	4·03	– 0·48	480	+119	47	+12
5. ENGLAND, S.E.	82	13	*	*	*	*	463	– 6	113	– 9	37	+ 3	4·36	+0·10	541	+141	53	+14
Western																		
6. SCOTLAND, WEST	74	19	*	*	*	*	386	+ 26	170	+ 10	38	– 4	7·22	– 0·50	416	+ 43	40	+ 4
7. ENGLAND, N.W...	79	19	*	*	*	*	425	+ 49	142	+ 8	37	– 2	5·69	+0·09	489	+125	47	+12
8. ENGLAND, SW.	81	12	*	*	*	*	444	– 2	96	– 5	40	+ 2	6·26	+0·16	503	+ 98	49	+10
9. IRELAND, NORTH	72	22	*	*	*	*	407	+ 17	116	– 11	46	0	6·39	+0·05	402	+ 48	39	+ 5
10. IRELAND, SOUTH	76	23	*	*	*	*	491	+ 22	88	– 6	48	+ 6	8·69	+1·88	450	+ 58	44	+ 6
11. ENGLISH CHANNEL	78	30	*	*	*	*	604	+ 85	26	– 4	39	– 1	5·33	+0·31	567	+ 84	56	+ 8

THE YEAR.—Aggregates, &c., for the Period of 20 Weeks, January 3rd to May 22nd, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	314	– 22	535	– 14	93	– 3	14·61	–5·10	439	+ 23	28	+ 1
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	348	– 57	673	+ 60	78	+ 1	12·39	+2·12	472	– 9	30	– 1
2. ENGLAND, N.E.	81	14	*	*	*	*	436	+ 19	580	+106	65	– 6	8·15	+0·50	581	+ 68	37	+ 4
3. ENGLAND, EAST	82	12	*	*	*	*	492	– 34	554	+ 34	67	– 3	6·01	– 1·41	689	+151	43	+10
4. MIDLAND COUNTIES.. ..	82	8	*	*	*	*	549	– 5	642	+112	59	– 9	6·96	– 1·73	624	+143	39	+ 9
5. ENGLAND, S.E...	82	0	*	*	*	*	527	– 60	482	+101	62	– 4	7·31	– 1·40	729	+196	46	+12
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	440	– 9	445	+ 23	73	– 9	15·31	– 1·26	530	+ 50	34	+ 3
7. ENGLAND, N.W.	79	10	*	*	*	*	483	+ 13	466	+ 81	68	– 7	10·39	– 0·88	650	+173	41	+11
8. ENGLAND, S.W.	81	7	*	*	*	*	528	– 69	390	+ 90	68	– 6	10·17	– 2·93	692	+151	43	+ 9
9 IRELAND, NORTH	72	14	*	*	*	*	525	+ 10	315	– 29	89	+ 1	12·64	– 0·23	511	+ 39	32	+ 2
10. IRELAND, SOUTH	76	15	*	*	*	*	659	+ 4	265	+ 6	85	+ 5	13·54	– 0·82	587	+ 60	37	+ 4
11. ENGLISH CHANNEL	78	25	*	*	*	*	779	+ 41	151	+ 42	69	–12	9·49	– 1·44	782	+131	49	+ 8

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked R is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*60*	*21st*	*32*	*19th*	*50·2*	*38·4*	*44·0*	—	*29*	*10*	*3*	*0·24*	—	*60·4*	—	*51*	—	*Balta Sound.*
	a Sumburgh Head ..	60	21st	31	16th	48·7	37·6	42·8	- 2·1	24	12	5	0·29	- 0·16	49·2	+ 9·0	42	+ 8	Deerness.
	a Stornoway	64	21st	32	16th	55·0	40·7	47·4	+ 0·4	43	4	6	0·76	+ 0·20	48·9	+ 5·6	43	+ 5	Stornoway.
	a Castlebay, Barra Isd.	*57*	*22nd*	*35*	*16th*	*51·0*	*42·6*	*46·6*	- *3·9*	*32*	*0*	*7*	*0·90*	—	*27·0*	—	*24*	—	*Castlebay.*
	a Wick	61	21st	27	16th	52·7	38·6	45·2	- 1·7	37	10	5	0·54	+ 0·09	*	*	*	*	
	p Strathpeffer	69	21st	31	16th	58·2	40·8	49·0	+ 1·2	54	3	4	0·14	- 0·30	31·1	- 7·5	27	- 7	Strathpeffer.
	p Glencarron .. S	70	21st	31	16th	56·9	40·4	48·2	+ 1·4	50	4	5	0·71	- 0·32	*	*	*	*	
	p Fort Augustus S	70	22nd	27	16th	59·2	40·4	49·2	+ 1·4	57	4	4	0·69	+ 0·17	20·7	- 9·8	18	- 9	Fort Augustus.
	p Fort William S	70	21st	29	16th	58·7	41·1	49·4	+ 0·1	56	3	6	1·16	+ 0·32	*	*	*	*	
1. SCOTLAND, E. .. .. — b, Mainland.	*p* Gordon Castle S	68	21st	29	17th	57·7	39·0	47·8	- 0·7	53	8	4	0·21	- 0·23	*40·1*	—	*35*	—	*Gordon Castle.*
	a Nairn	70	21st	30	16th	58·0	37·9	47·4	- 1·1	55	11	4	0·35	- 0·02	36·8	—	32	—	Nairn.
	a Aberdeen	66	22nd	33	16th	56·0	39·4	47·2	- 0·5	47	7	5	0·13	- 0·35	31·2	- 11·3	27	- 10	Aberdeen.
	a Balmoral	62	21st, 22nd	24	16th, 17th	54·1	35·6	44·3	- 1·2	43	18	2	0·20	- 0·33	25·6	—	23	—	Crathes S.
	p Crieff .. .. S	72	22nd	28	16th	58·9	40·4	49·1	- 0·6	56	4	5	0·16	- 0·39	44·3	—	39	—	Balruddery
	a Leith .. .. S	69	22nd	34	16th	58·3	41·1	49·2	- 0·2	54	3	5	0·27	- 0·11	45·1	+ 8·2	40	+ 7	Edinburgh.
	a West Linton .. S	67	22nd	22	16th	57·9	37·2	46·9	+ 0·4	54	13	6	0·65	—	*43·6*	—	*39*	—	*West Linton.*
	p Marchmont .. S	73	22nd	29	16th	59·6	39·1	48·7	+ 1·2	59	8	3	0·30	- 0·24	43·2	+ 3·1	39	+ 3	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	68	21st, 22nd	28	16th	59·4	38·5	48·3	+ 0·4	59	10	1	0·13	- 0·36	43·2	—	39	—	Cockle Park.
	a Shields	71	22nd	33	16th	58·3	41·1	49·2	+ 1·0	54	3	2	0·17	- 0·21	*35·0*	+ *2·7*	*32*	+ *2*	*Newcastle.*
	p Durham	72	21st, 22nd	29	16th	60·6	39·9	49·6	+ 1·0	62	6	2	0·22	- 0·20	46·4	+ 8·2	42	+ 7	Durham.
	p Rounton .. M	76	21st, 22nd	34	17th	62·3	40·5	50·8	+ 3·0	68	4	2	0·15	- 0·25	*	*	*	*	
	p Scarborough .. M	73	22nd	35	16th	59·7	43·1	50·9	+ 1·9	62	0	2	0·06	- 0·35	49·9	—	45	—	Scarborough.
	p York	78	21st	35	16th	63·6	42·1	52·2	+ 1·4	71	0	2	0·09	- 0·35	50·0	+10·1	45	+ 9	York.
— b, South.	*a* Spurn Head	68	22nd	38	16th	56·1	44·3	49·9	+ 0·2	55	0	0	0·00	- 0·36	*	*	*	*	
	a Lincoln	79	21st, 22nd	36	19th	66·1	41·6	53·1	+ 1·9	79	1	2	0·04	- 0·37	67·1	—	61	—	Skegness.
	a Fulbeck	81	21st	35	19th	66·8	41·4	53·3	+ 2·8	82	2	1	0·01	- 0·42	61·0	—	56	—	Rauceby.
															71·7	—	*66*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	76	21st	34	16th	61·3	43·6	51·9	+ 2·2	69	0	3	0·19	—	67·3	—	62	—	Cromer.
	p Hillington .. M	82	22nd	31	16th	66·6	38·9	51·9	+ 1·0	82	9	2	0·24	- 0·18	66·2	+20·1	61	+18	Hillington.
	a Yarmouth	72	22nd	40	16th, 18th	57·3	44·9	50·7	+ 1·1	61	0	3	0·23	- 0·15	72·0	—	66	—	Yarmouth.
	a Norwich	80	22nd	29	16th	66·9	40·7	53·0	+ 2·8	82	4	3	0·21	—	*	*	*	*	
	p Geldeston	82	22nd	27	16th	63·8	38·7	50·5	0·0	73	9	2	0·09	- 0·31	66·9	+18·1	61	+17	Geldeston.
	p Cambridge	81	22nd	30	16th	67·3	37·8	51·7	- 0·2	86	12	2	0·03	- 0·38	68·8	+23·4	64	+22	Cambridge.
— b, South.	*a Felixstowe*	*72*	*22nd*	*39*	*18th, 19th*	*58·9*	*45·0*	*51·5*	+ *0·8*	*67*	*0*	*3*	*0·18*	—	*68·5*	—	*63*	—	*Felixstowe.*
	a Clacton-on-Sea ..	75	22nd	41	18th	59·6	46·7	52·8	+ 2·7	83	15	2	0·03	- 0·40	68·3	+24·3	63	+23	Rothamsted.
	a Rothamsted ..	78	21st, 22nd	29	16th	66·4	36·8	50·7	0·0	83	15	2	0·03	- 0·40	68·3	+24·3	63	+23	Clacton.
	a Shoeburyness ..	*79*	*22nd*	*38*	*18th*	*65·0*	*44·4*	*53·1*	+ *0·4*	*78*	*0*	*3*	*0·49*	+ *0·24*	*73·8*	—	*67*	—	*Southend.*
	p Tottenham	81	22nd	33	16th	66·7	41·6	53·4	+ 1·6	81	1	2	0·13	—	70·1	—	65	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	75	21st	35	16th, 17th	61·5	39·7	50·0	+ 1·3	66	6	2	0·55	+ 0·08	54·9	—	50	—	Harrogate.
	a Bawtry	80	21st, 22nd	30	19th	67·3	37·4	51·5	+ 0·8	86	13	2	0·28	- 0·14	53·7	+15·6	49	+14	Worksop.
	p Buxton .. M	*77*	*21st*	*29*	*19th*	*62·4*	*35·9*	*48·4*	+ *1·2*	*70*	*17*	*2*	*0·36*	- *0·34*	*67·6*	—	*62*	—	*Buxton.*
	a Nottingham ..	80	21st	33	19th	65·3	40·0	51·9	+ 1·1	78	6	2	0·09	- 0·32	63·6	—	58	—	Nottingham.
	p Birmingham, Edgbsn	79	21st	37	16th	64·9	42·6	53·1	+ 2·6	78	0	2	0·09	- 0·37	57·8	—	53	—	Birmingham.
	a Raunds .. M	82	21st	31	16th, 19th	68·3	37·8	52·1	+ 1·2	88	12	0	0·00	—	*	*	*	*	
	a Oxford	80	21st	36	19th	67·0	40·9	53·2	+ 1·5	83	3	2	0·40	- 0·60	67·5	+23·7	63	+22	Oxford.
— b, West.	*a* Cheadle .. M	78	21st	33	16th	63·3	40·1	51·0	+ 1·6	71	5	2	0·11	- 0·36	59·2	—	54	—	Sheffield.
	p Shrewsbury	80	21st	28	16th	66·9	37·6	51·4	+ 0·1	84	12	0	0·00	—	*	*	*	*	
	a Hereford .. M	79	21st	31	19th	66·8	38·5	51·8	+ 0·3	83	10	1	0·04	- 0·43	*	*	*	*	
	a Cirencester	80	21st	34	19th	66·6	39·7	52·3	+ 2·1	82	6	0	0·00	- 0·47	65·2	+19·4	60	+18	Cirencester.
	a Bath	79	21st	34	19th	66·7	40·4	52·8	+ 0·8	82	4	0	0·00	- 0·43	77·3	—	72	—	Bath.
															78·4	—	*73*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	81	21st	36	16th	67·0	42·0	53·8	+ 1·5	83	0	3	0·08	- 0·28	70·1	+25·0	65	+23	Kew.
	a Marlborough ..	80	21st	31	18th, 19th	66·5	35·2	49·9	- 0·1	84	19	0	0·00	- 0·43	66·3	+24·5	61	+23	Marlborough.
	a Margate	82	22nd	41	18th	65·0	47·6	55·8	+ 4·4	97	0	3	0·48	+ 0·14	70·5	+26·0	65	+24	Margate.
	a Wisley, Surrey ..	80	21st, 22nd	32	16th	67·4	39·6	52·7	+ 0·5	85	7	2	0·08	—	70·8	—	65	—	Wisley.
	a Swarraton .. M	79	21st	30	18th	66·6	37·2	51·0	+ 0·5	83	13	2	0·12	- 0·33	83·0	—	78	—	Worthing.
	a Tunbridge Wells M	81	21st	34	16th	66·3	42·0	53·4	+ 2·2	80	0	2	0·46	+ 0·06	77·1	+30·9	71	+29	Tunbridge Wells.
	a Dungeness	68	21st	39	19th	59·9	45·6	52·3	+ 1·0	72	0	2	0·36	+ 0·09	77·3	—	72	—	Littlestone.
	p Hastings	72	21st	39	16th	62·1	47·1	54·2	+ 2·5	85	0	1	0·20	- 0·17	*81·0*	+*28·2*	*76*	+*26*	*Hastings.*
	p Southampton ..	78	21st	38	16th	66·2	42·9	53·9	+ 0·3	83	0	2	0·03	- 0·41	70·8	+21·8	66	+20	Southampton.
	a Ventnor	71	22nd	43	17th, 19th	62·8	47·4	54·6	+ 1·9	88	0	1	0·02	- 0·35	83·0	+31·7	78	+30	Ventnor.
															83·0	+31·8	78	+30	Eastbourne.
LONDON	*a Westminster* ..	*81*	*22nd*	*38*	*18th*	*67·0*	*44·0*	*54·8*	+ *2·0*	*90*	*0*	*2*	*0·08*	- *0·28*	*68·0*	+*30·6*	*63*	+*28*	*Westminster.*
	a Greenwich	*84*	*22nd*	*33*	*16th*	*69·1*	*40·3*	*53·8*	+ *0·9*	*90*	*5*	*2*	*0·13*	- *0·25*	*75·9*	+*34·2*	*70*	+*32*	*Greenwich.*
6. — a, SCOTLAND. W. ..	*p* Laudale	69	21st	30	16th	58·3	42·1	49·7	- 0·2	54	0	6	1·69	+ 0·81	*	*	*	*	
	a Poltalloch .. S	67	21st	30	16th	59·0	39·6	48·7	- 1·2	57	7	4	0·53	- 0·08	*	*	*	*	
	p Glasgow	70	21st	32	16th	59·8	43·4	51·1	+ 1·4	64	0	5	0·77	+ 0·20	38·3	+ 1·3	34	+ 1	Glasgow.
	p Rothesay .. S	68	22nd	30	16th	60·1	41·9	50·5	+ 0·8	60	0	7	0·52	- 0·13	*	*	*	*	
	a Kilmarnock													—					*Kilmarnock.*
	a Colmonell .. S	70	21st	27	16th	61·1	40·9	50·4	+ 0·4	63	3	5	0·26	- 0·32	*	*	*	*	
	p Dumfries	72	21st	28	16th	58·1	41·1	49·1	- 1·4	53	3	2	0·16	- 0·41	*	*	*	*	
— b, ISLE OF MAN ..	*p* Cally, Gatehouse S	68	21st	24	16th	60·2	37·3	48·1	- 1·8	62	13	3	0·63	- 0·07	*	*	*	*	
	p Douglas	65	21st	31	16th	55·6	42·8	48·8	- 0·8	48	0	3	0·30	- 0·27	62·3	+11·6	56	+10	Douglas.
															61·4	—	56	—	Hoylake.
7. — a, ENGLAND, N.W. ..	*p* Aspatria	73	20th	32	16th	61·3	43·4	51·8	+ 2·6	69	0	2	0·14	- 0·43	54·4	—	49	—	Aspatria.
	p Newton Rigg ..	70	20, 21, 22nd	27	16th	61·3	39·0	49·5	+ 1·0	65	8	1	0·03	- 0·51	54·2	+ 9·8	49	+ 9	Newton Rigg.
	p Stonyhurst	75	21st	32	16th	60·6	40·9	50·2	+ 0·3	62	3	1	0·04	- 0·59	54·5	+10·9	50	+10	Stonyhurst.
	p Blackpool .. M	73	20th, 21st	29	16th	59·1	39·6	48·8	- 1·6	58	7	3	0·16	- 0·32	64·5	+19·2	59	+17	Blackpool.
	p M'nch'ster, Prestwich	79	21st	33	19th	63·8	40·9	51·7	+ 1·7	73	3	1	0·08	- 0·47	*51·3*	+*12·8*	*47*	+*12*	*Prestwich.*
	a Liverpool (Bidston)	76	21st	37	16th	62·0	43·7	52·3	+ 1·6	72	0	1	0·03	- 0·39	*63·8*	—	*57*	—	*Liverpool.*
	a Hawarden Bridge ..	79	21st	31	16th	63·2	40·5	51·2	- 0·6	71	4	1	0·08	- 0·32	*61·6*	+*14·0*	*56*	+*13*	*Southport.*
															61·6	—	*56*	—	*Rhyl.*
— b, NORTH WALES ..	*p* Llandudno .. M	74	20th	32	16th	60·3	43·9	51·6	+ 0·8	67	0	1	0·02	- 0·41	60·5	+14·4	55	+13	Llandudno.
	a Holyhead	71	20th	37	16th	59·1	44·7	51·5	+ 1·4	67	0	2	0·09	- 0·33	58·4	—	54	—	Aberdovey.
	p Bettws-y-Coed ..	77	21st	29	16th	63·9	40·1	51·3	+ 0·3	73	5	3	0·19	—	51·4	—	47	—	Bettws-y-Coed.
															56·6	—	52	—	Aberystwyth.
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	75	21st	24	19th	63·3	33·9	47·7	- 1·8	74	23	1	0·03	—	63·2	—	59	—	Llangammarch Wells.
	a Pembroke	63	20th	37	16th	55·4	44·0	49·4	- 0·7	52	0	2	0·05	- 0·37	*57·5*	+ 7·5	53	+ 7	Pembroke.
	a Cardiff	78	21st	37	16th	64·4	41·8	52·4	+ 0·2	74	1	1	0·06	- 0·49	*80·3*	—	*74*	—	*Cardiff.*
															60·4	+*10·4*	*56*	+*10*	*Tenby.*
— b, ENGLAND, S.W. ..	*a* Clifton	81	21st	40	16th	67·7	45·6	56·0	+ 3·5	98	0	1	0·04	- 0·46	*73·9*	—	*68*	—	*Clifton.*
	a Shaftesbury .. M	78	21st	35	16th	64·5	42·9	53·1	+ 2·7	78	0	1	0·03	- 0·44	*	*	*	*	
	a Arlington	74	21st	32	19th	63·4	41·6	51·9	+ 2·0	71	1	2	0·16	- 0·47	68·6	+19·2	64	+18	Newquay.
	a Cullompton .. M	80	21st	31	19th	67·6	36·0	50·9	- 0·9	88	17	1	0·03	- 0·44	68·0	+22·9	64	+21	Cullompton.
	a Portland Bill ..	60	21st	43	17th	55·7	47·4	51·3	- 0·2	65	0	1	0·17	—	*73·0*	—	*73*	—	*Weymouth.*
	p Plymouth	73	20th	37	19th	63·1	45·3	53·7	+ 1·0	82	0	2	0·02	- 0·43	76·5	+26·9	72	+25	Plymouth.
	p Falmouth	69	21st	39	16th	59·4	46·2	52·4	+ 0·7	73	0	1	0·01	- 0·47	71·9	+18·9	67	+18	Falmouth.
															80·9	+*29·9*	*76*	+*28*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	66	22nd	37	16th	57·7	43·0	49·9	+ 0·7	55	0	5	0·44	- 0·04	*	*	*	*	
	a Blacksod Point ..	60	22nd	38	18th	55·4	45·7	50·3	- 0·3	58	0	6	1·48	+ 0·87	*	*	*	*	
	p Markree Castle ..	67	20th	29	18th	58·8	41·0	49·4	- 0·2	56	3	5	0·56	- 0·04	25·1	- 17·4	23	- 16	Markree Castle.
— b, East.	*a* Birr Castle	71	21st	32	18th	61·0	41·1	50·5	- 0·1	63	3	2	0·39	- 0·13	*39·1*	- *3·1*	*36*	- *3*	*Birr Castle.*
	p Armagh	70	21st	33	16, 17, 18th	60·5	42·0	50·7	+ 1·1	61	0	2	0·47	- 0·10	33·5	- 8·4	30	- 8	Armagh.
	a Donaghadee	66	21st	33	16th	58·6	41·3	49·4	- 0·3	55	2	3	0·13	- 0·39	*	*	*	*	
10. IRELAND, S. — a, East.	*p* Dublin, City	73	21st	37	16, 17, 18th	62·4	44·7	53·0	+ 1·0	77	0	2	0·40	- 0·07	52·1	+ 4·5	47	+ 4	Phœnix Park.
	a Kilkenny	68	21st	29	16th	59·1	39·1	48·5	- 2·2	58	8	2	0·22	- 0·28	*	*	*	*	
	a Waterford	62	20th, 21st	33	17th	59·3	40·1	49·1	- 2·3	58	5	2	0·05	- 0·46	*	*	*	*	
— b, West.	*a* Birr Castle	71	21st	32	18th	61·0	41·1	50·5	- 0·1	63	3	2	0·39	- 0·13	39·1	- 3·1	36	- 3	Birr Castle.
	a Foynes	67	21st	34	18th	59·5	44·0	51·3	- 0·5	65	0	5	0·26	- 0·24	*	*	*	*	
	a Cahir .. .. M	68	21st	31	17th	59·2	41·3	49·7	- 1·3	57	2	3	0·52	—	*	*	*	*	
	a Killarney	66	21st	32	18th	61·3	43·8	52·0	+ 1·0	70	0	6	0·70	+ 0·03	*	*	*	*	
	a Valencia	61	21st	34	18th	57·1	45·0	50·7	- 0·8	61	0	5	1·61	+ 0·91	28·6	- 19·3	27	- 18	Valencia.
	a Roche's Point ..	59	20th, 21st	37	17th	56·0	45·9	50·7	- 0·8	61	0	2	0·25	- 0·29	51·8	—	48	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	61	20, 21, 22nd	47	16th, 17th	59·3	49·9	54·3	+ 2·3	86	0	2	0·03	- 0·34	60·1	+ 6·8	56	+ 6	Scilly.
	a Jersey, St. Aubins ..	76	20th	38	19th	65·7	44·8	54·4	+ 1·0	87	0	1	0·05	- 0·40	73·4	+17·4	69	+16	St. Heliers.
	a Guernsey	78	21st	43	19th	65·0	47·3	55·6	+ 3·0	95	0	0	0·00	- 0·43	75·0	+17·0	71	+16	Guernsey.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound	—	—	45·7	—
	— —				
	— —				
1.	Aberdeen	—	—	—	45·1
	Crathes	4	21	46·9	45·4
	Balmoral	4	21	—	—
	West Linton	4	17	—	—
	Marchmont	2	25	47·9	—
2.	Cockle Park	2	28	47·8	45·7
	Durham	1	28	—	—
	York	—	—	49·4	47·8
	Hull	3	26	48·9	47·0
	Lincoln	—	—	49·1	47·0
	Rauceby	2	25	53·1	48·8
3.	Norwich	2	24	—	—
	Yarmouth	—	—	54·0	51·7
	Lowestoft	0	32	52·6	49·4
	Cambridge	4	19	51·9	49·9
	Clacton-on-Sea	1	28	52·5	50·8
	Southend	0	39	52·4	—
	Tottenham	1	30	—	50·5
4.	Harrogate	0	31	47·0	46·3
	Huddersfield	0	31	49·0	45·4
	Buxton	4	27	48·4	45·8
	Sheffield	2	27	49·2	46·5
	Nottingham	2	21	51·2	47·5
	Birmingham	4	17	47·5	46·1
	Oxford	8	28	—	—
	Hereford	5	23	—	—
	Cirencester	2	26	—	—
5.	Margate	0	38	52·3	49·7
	Greenwich	5	20	—	—
	Westminster	0	31	—	—
	Kew	4	25	51·5	49·4
	Canterbury	2	26	52·6	51·1
	Tunbridge Wells	2	27	53·5	—
	Wisley	2	24	52·4	50·5
	Worthing	0	31	54·0	50·9
	Portsmouth				
6.	Glasgow	1	24	—	—
	Rothesay	—	—	—	47·5
	Colmonel	2	23	—	—
	Dumfries	—	—	—	—
	Douglas	1	26	—	—
7.	Aspatria	1	21	—	—
	Newton Rigg	1	26	50·2	47·0
	Burnley	5	25	48·6	45·9
	Southport	2	18	53·5	50·6
	Manchester City	0	32	48·1	48·3
	Bettws-y-Coed	1	28	47·9	47·0
8.	Llangammarch Wells	6	13	51·0	48·0
	Cardiff	1	28	53·2	49·9
	Clifton	0	36	—	—
	Bath	—	—	54·0	52·0
	Plymouth	0	31	56·7	—
9.	Armagh	2	27	52·3	49·8
	Markree	3	24	—	—
10.	Dublin, Trin. Coll.	2	27	51·8	50·1
11.	Guernsey, Brooklyn	0	34	55·6	53·0

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	45	45	45·0
	Kirkwall	48	47	47·3
	Wick	49	49	49·0
SCOTLAND, E.	Cromarty	47	42	44·4
	Pennan Bay	49	46	47·6
	Aberdeen, Cove Bay	47	43	45·2
ENGLAND, N.E.	Burnmouth, Berwick	45	42	43·2
	Scarborough	48	45	46·2
ENGLAND, E.	Shipwash Lightship	53	47	49·1
	Margate‡	55	51	52·8
ENGLAND, S.E.	Eastbourne‡	56	52	53·7
SCOTLAND, W.	Lamlash	—	—	—
	Ballantrae	51	48	49·4
	Port Erin	50	47	48·4
ENGLAND, N.W.	Newquay	55	53	54·4
	Plymouth‡	54	51	52·9
ENGLAND, S.W.	Salcombe	55	52	53·6
	Sheephaven	53	50	51·5
IRELAND, N.W.	Teelin	54	51	52·2
	Cleggan	55	49	51·9
IRELAND, S.W.	Seafield	53	51	53·6
IRELAND, E.				

‡ Only one observation each day.

Corrections and Additions for April, 1909.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

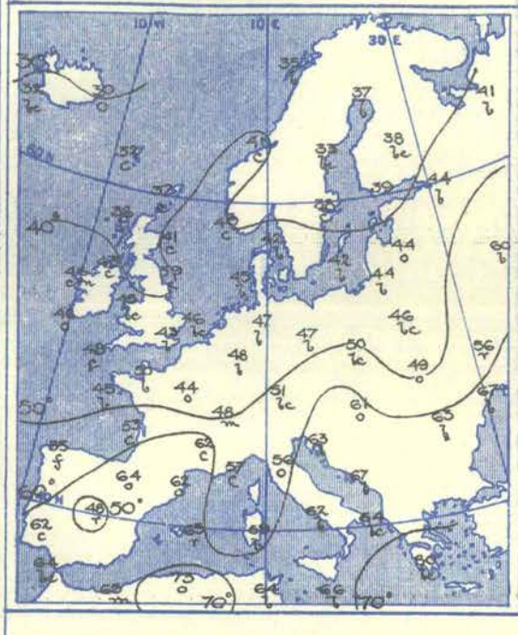
Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit.										Rainfall.			Bright Sunshine.			
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Daily Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 12, p. 98	2. England, N.E.	—	—	—	—	—	—	—	—	—	—	—	0·72	+0·35	—	—	—	—
No. 16, p. 130	0. Scotland, N.	—	—	33	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 16, p. 130	3. England, E.	—	—	—	—	60·5	—	51·3	+5·5	65	—	—	0·54	+0·18	—	—	—	—
No. 17, p. 138	2. England, E.	—	—	—	—	—	—	—	—	—	—	—	0·61	+0·24	—	—	—	—
No. 17, p. 138	3. England, E.	—	—	—	—	—	—	—	—	—	—	—	0·74	+0·35	—	—	—	—
Station Values.— Additions.																		
No. 14, p. 115	Bognor	—	—	—	—	—	—	—	—	—	—	—	—	—	80·9	—	90	—
No. 16, p. 131	Norwich	67	19, 24	35	21st	62·7	43·2	52·5	+7·3	74	0	3	0·37	—	—	—	—	—
No. 17, p. 139	Lincoln	64	26th	30	1st	56·7	38·7	47·3	−0·1	51	9	5	0·25	−0·11	—	—	—	—
No. 17, p. 139	Norwich	68	26th	33	1st	57·9	40·5	48·8	+2·3	54	4	7	0·80	—	—	—	—	—
Station Values.— Corrections.																		
No. 12, p. 99	Durham	—	—	—	—	—	—	—	—	—	—	—	0·69	+0·31	—	—	—	—
No. 12, p. 99	Plymouth	—	—	—	—	—	—	—	—	—	—	—	1·66	+1·07	—	—	—	—
No. 13, p. 107	Hillington	—	—	—	—	51·9	—	44·4	+1·8	35	—	—	—	—	—	—	—	—
No. 13, p. 107	Yarmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	31·6	—	36	—
No. 14, p. 115	Eastbourne	—	—	—	—	—	—	—	—	—	—	—	—	—	80·7	+44·4	90	+49
No. 14, p. 115	Glasgow	61	—	—	—	56·6	—	45·8	+3·4	52	—	—	—	—	—	—	—	—
No. 15, p. 123	York	—	—	—	—	—	—	—	—	—	—	5	0·84	+0·45	—	—	—	—
No. 15, p. 123	Yarmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	41·5	—	44	—
No. 15, p. 123	Cheadle	—	—	—	—	56·4	—	47·1	+3·4	50	—	—	—	—	—	—	—	—
No. 15, p. 123	Kilmarnock	—	—	—	—	—	—	—	—	—	—	—	—	—	22·2	—	23	—
No. 15, p. 123	Holyhead	—	14, 15	—	—	52·6	—	47·9	+2·5	41	—	—	—	—	—	—	—	—
No. 16, p. 131	Glencarron	—	—	36	21st	—	39·3	46·5	+4·0	43	8	—	—	—	—	—	—	—
No. 16, p. 131	Scarborough	—	—	—	—	—	—	—	—	—	—	4	0·96	+0·56	—	—	—	—
No. 16, p. 131	Yarmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	58·8	—	61	—
No. 16, p. 131	Rothamsted	—	—	—	—	60·0	—	49·9	+4·2	60	—	—	—	—	—	—	—	—
No. 16, p. 131	Shrewsbury	—	—	—	—	—	—	—	—	—	—	5	0·73	—	—	—	—	—
No. 16, p. 131	Kilmarnock	—	—	—	—	—	—	—	—	—	—	—	—	—	26·5	—	27	—
No. 16, p. 131	Roche's Point	—	—	—	—	—	—	—	—	—	—	—	0·84	+0·21	—	—	—	—
No. 17, p. 139	Fulbeck	—	—	—	1st	—	39·5	47·1	−0·2	46	7	—	—	—	—	—	—	—
No. 17, p. 139	Hillington	—	—	—	—	—	—	—	—	—	—	—	0·27	−0·14	59·9	+20·9	59	+21
No. 17, p. 139	Cullompton	—	—	—	—	—	40·7	47·9	−0·4	47	4	—	—	—	—	—	—	—

Station Values.— Additions.		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
No. 14, p. 116	Portsmouth	4	27	45·2	45·8
No. 14, p. 116	Manchester, City	5	28	41·4	42·6
No. 14, p. 116	Dublin, Trin. Col.	6	22	—	—
No. 17, p. 140	Lincoln	—	—	48·6	45·1
No. 17, p. 140	Norwich	1	30	—	—
Station Values.— Corrections.					
No. 14, p. 116	Rauceby			—	42·9

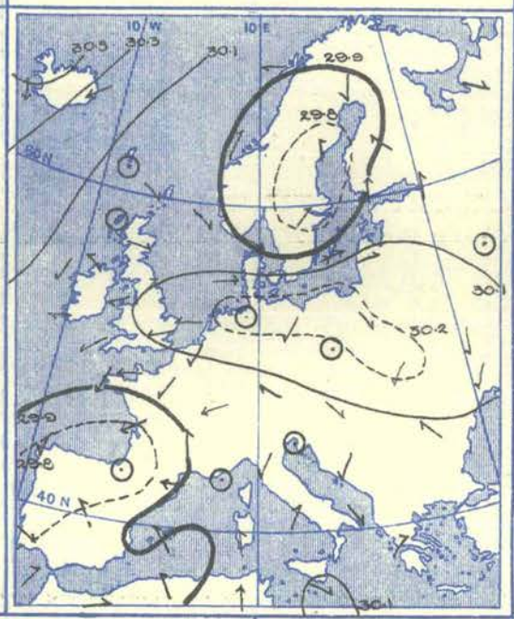
Station Values.— Additions.		Temperature of the Sea. Highest.	Lowest	Mean.
No. 15, p. 124	Cromarty	46	42	43·8

Sunday, 16th May, 1909.

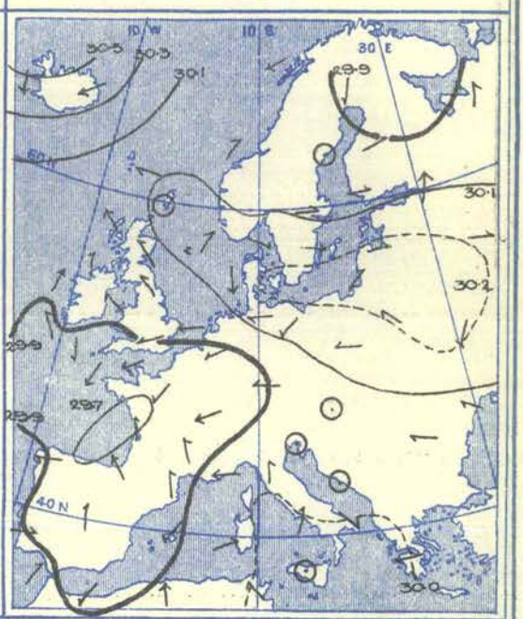
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater portion of our area, but overcast in some regions, with rain in the south of Sweden, at Le Mans, in some parts of the Spanish Peninsula and at Oran, and also at Kieff. Some rain later in various parts of these Islands, France, the Low Countries, the Spanish Peninsula, and Greece, and very slight falls in some other regions.

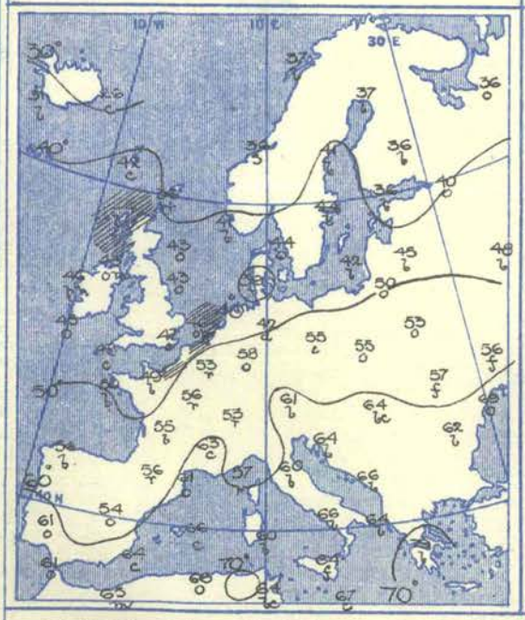
Temperature showing little change generally, risen over France. Morning readings ranging from about 80° at Patras, above 70° in Algeria, and above 60° on the shores of the Mediterranean generally, and also over the southern half of Russia, to below 50° in Germany, the north of France, the United Kingdom, and northern Europe as a whole, and to 33° at Hernösand. Maxima during day above 50° over the greater part of this country, but below it at some north-eastern and northern stations. Above 70° very generally in the south of our area and in some parts of Germany and Austria, and as high as 91° at Athens.

Wind in morning moderate from the Eastward over the south of England and the greater portion of France, and strong to high from the North-Eastward in Iceland. A complete cyclonic circulation shown over Scandinavia, the Westerly current blowing a gale at Wisby. Variable, and generally light, airs prevailing over the south of our area. Some increase taking place in the force of the Easterly and North-Easterly winds on our south coasts during day, and also on the coast of Holland.

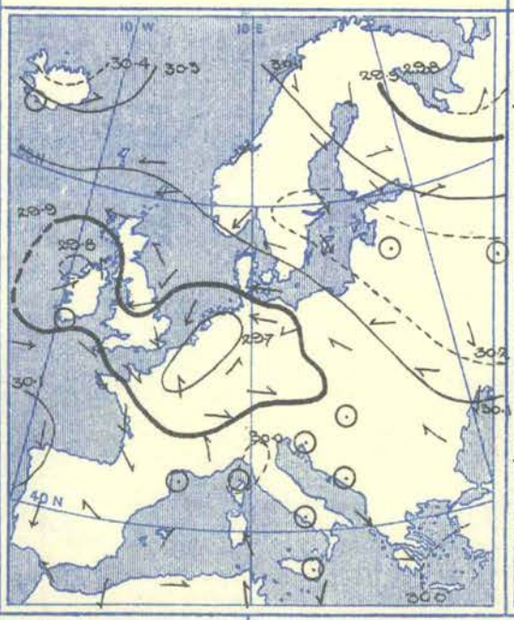
Barometer in morning above 30·5 ins. in the north-west of Iceland, and above 30·2 ins. in an elongated high pressure system over Germany and Poland. Below 29·8 ins. in a depression over the Peninsula and the south-west of France, and also in another over the Gulf of Bothnia region. Both disturbances travelling north-eastwards during day, and gradient increasing over the south-east of this country and its vicinity. German high pressure system extending eastwards and moving northwards. High pressure over Iceland undergoing little alteration.

Monday, 17th May, 1909.

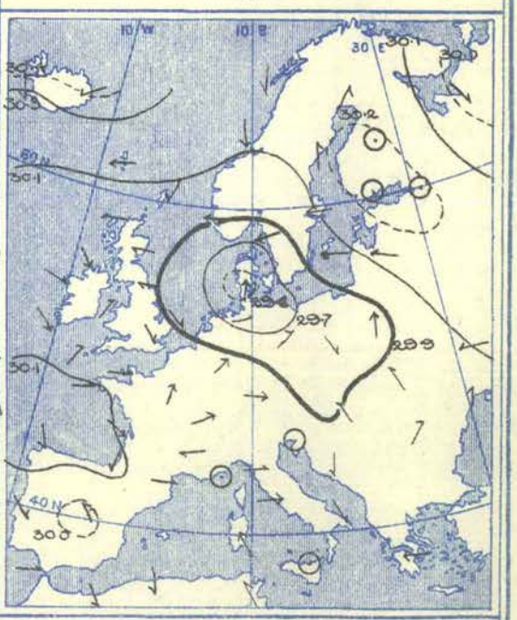
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning mostly cloudy or overcast in these Islands and the adjacent parts of the Continent, with rain or passing showers in several localities. Fair to fine and bright in nearly all other regions, but rain falling at Biarritz, Nice, and Copenhagen, and snow at Christiansund. Rain experienced later in most parts of the United Kingdom, and considerable or heavy amounts in many districts over the western half of the Continent. Heaviest measurement 1·1 in. at Skagen.

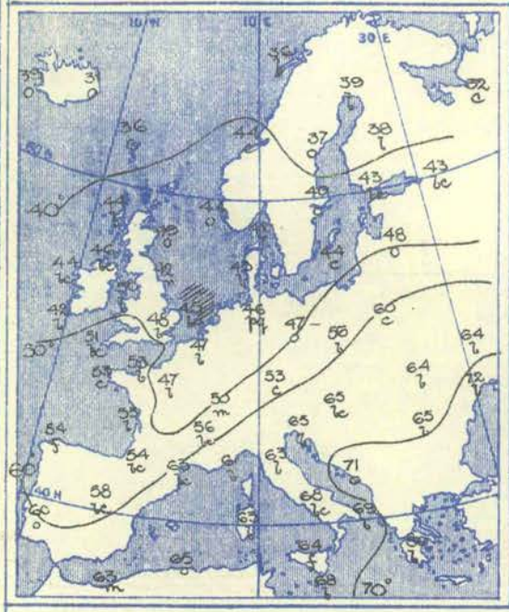
Temperature risen in most places, but changes rather irregular. Morning readings nearly 80° in Greece, 72° at La Calle, 69° at Barcelona, and above 60° in the Mediterranean region generally and in the south of Russia and Hungary. Below 50° over the northern half of the Continent and in this country, and below 40° in Shetland and the north of Europe. Rising later to 93° at Aumale, 91° at Athens, to above 80° in some parts of Hungary and Italy, and above 70° over a large area. Maxima above 55° in various parts of England, but below 50° at Nottingham, and at some of our eastern and northern stations.

Wind in morning mainly cyclonic except over Russia. Easterly current blowing a strong breeze in Denmark and at the mouth of the Elbe, as well as at Stornoway, but little force generally. Easterly wind increasing to a gale by evening on the south coast of Norway, and a strong breeze from West setting in on the Dutch coast. Veering to the North-Westward in the west and south of Ireland.

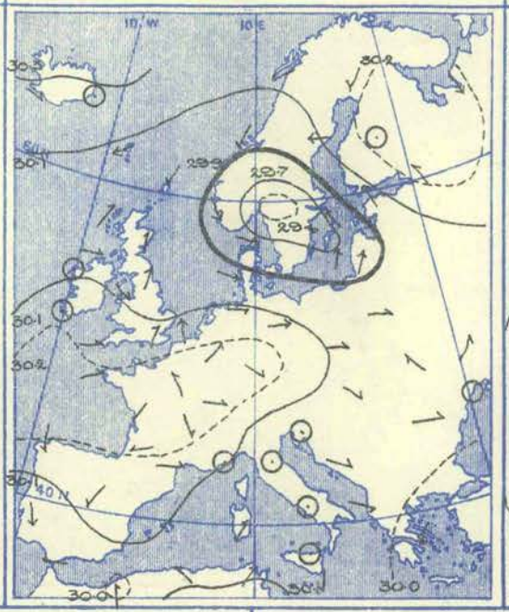
Barometer in morning 30·4 ins. in the north of Iceland, above 30·2 ins. in central Russia and southern Sweden, and 30·1 ins. in the north-west of Spain. Below 29·7 ins. in a depression over the Netherlands and the north-east of France, and relatively low off the north-west of Ireland. Main depression travelling to Jutland during day and increasing in depth, and south-western high pressure extending over the Bay of Biscay to the south-west of this country. High pressure system in Iceland maintaining its position.

Tuesday, 18th May, 1909.

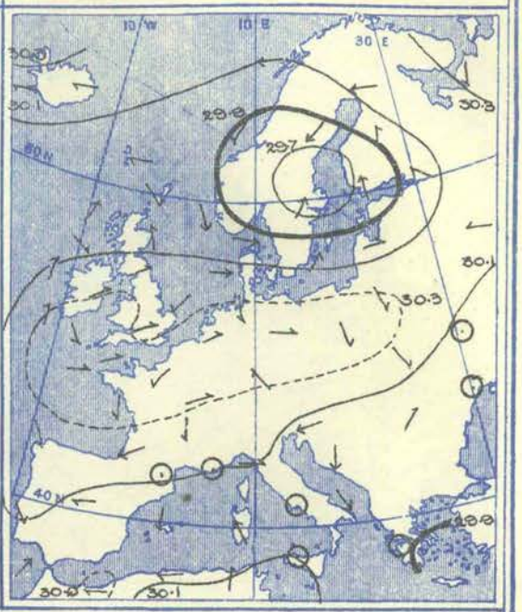
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning showery at Portland and rainy in some parts of the north of these Islands, as well as over the south of Scandinavia and its neighbourhood, but fair to very fine in nearly all other regions. Some rain later in northern Ireland, Scotland, and also in London and at Yarmouth. Fair and dry in most other districts, but some rain falling in Scandinavia and Russia.

Temperature risen in most regions. Morning readings 80° at Athens and between 60° and 70° over the Mediterranean generally, as well as in the south of Russia; below 50° at most of our own stations and in the north of France, and below 40° over the north of the Continent. Maxima during day about 60° in several English localities and over a large part of Germany and the Low Countries, above 70° in the south of our area and in Austria-Hungary, and above 80° in places; highest reading 90° at Athens.

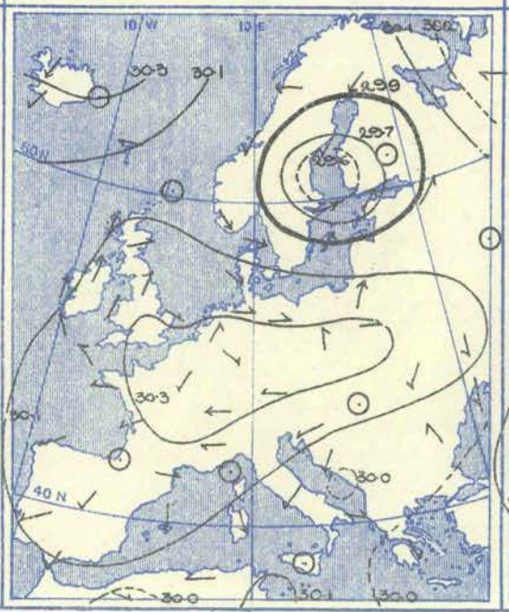
Wind in morning showing a main cyclonic circulation of considerable force over Scandinavia and the Baltic region; Westerly current high at Copenhagen. Chiefly anticyclonic and of little strength over our area as a whole. No great change later; a South-Westerly gale setting in at Wisby.

Barometer in morning above 30·2 ins. both in the north-west and north-east of our area, and also in a system extending from the Bay of Biscay across France to South Germany. Below 29·6 ins. in a depression centred over the south of Norway, and relatively low in a secondary over Scotland. Southern high pressure extending later to Poland, and northern depression travelling north-eastwards. A very shallow and ill-defined disturbance passing over England, but barometer rising somewhat over these Islands generally.

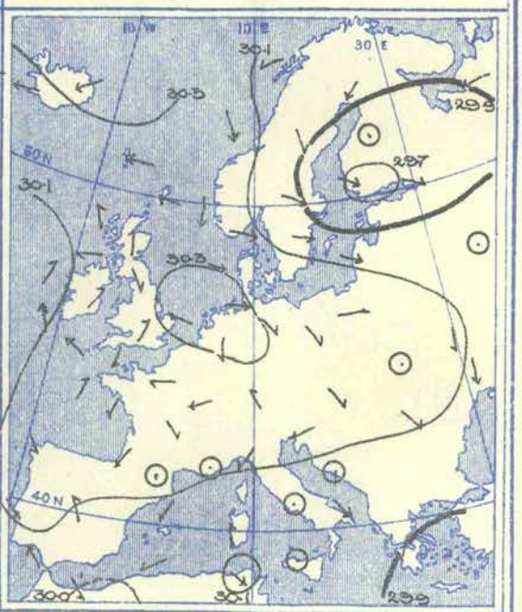
Wednesday, 19th May, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater portion of our area, but rainy at some of our northern and north-western stations, as well as at Madrid and Oran, and unsettled, with some rain in a few places, in the Scandinavian region. A considerable fall of rain later at Nemours and a little in north Scotland and over Scandinavia, but conditions very fine and dry generally.

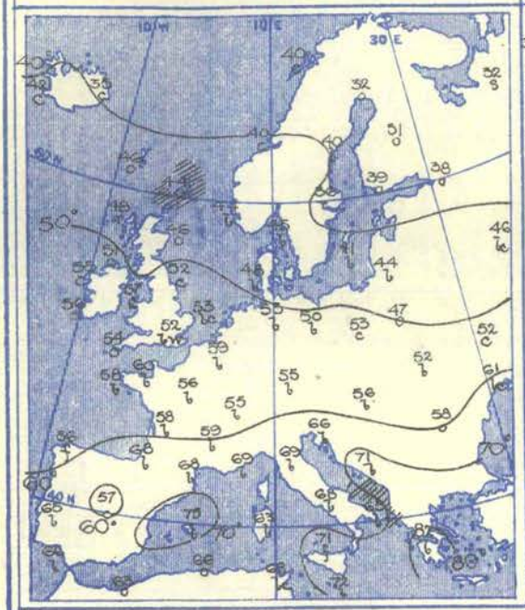
Temperature changed rather irregularly, but fallen over the greater part of the Continent. Morning readings below 40° over a large area in the north, about 50° in the west and south of these Islands and the nearer districts on the Continent, and above 60° at most stations in the south of Europe; highest values 75° at Lesina and 81° at Patras. Maxima during day about 65° over a large portion of England, the Low Countries, and Germany, and above 70° in Hungary, France, and the Mediterranean region. Thermometer rising to about 80° in a few places, and nearly touching 90° in Greece.

Wind in morning showing an anticyclonic movement over all the central countries, France, and the south of these Islands, and a well-marked cyclonic circulation over Scandinavia and its neigh bourhood. Westerly current strong to a gale over the south of Norway and Sweden. Little change later in day; North-Westerly wind increasing to a strong breeze at Brindisi and Tunis.

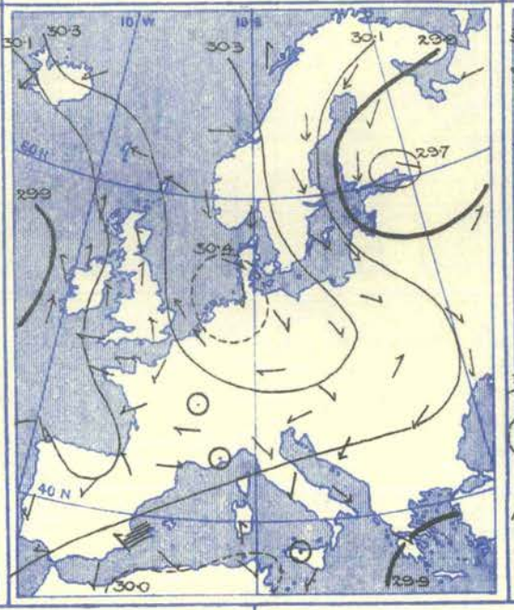
Barometer in morning above 30·3 ins. in a high pressure system extending from France to Poland, and also in the north of Iceland. Below 29·6 ins. in a depression centred over the Gulf of Bothnia. No change occurring later in day in the general distribution of pressure. Depression moving eastwards, and a slight fall of the mercury taking place on the western coasts of this country.

Thursday, 20th May, 1909.

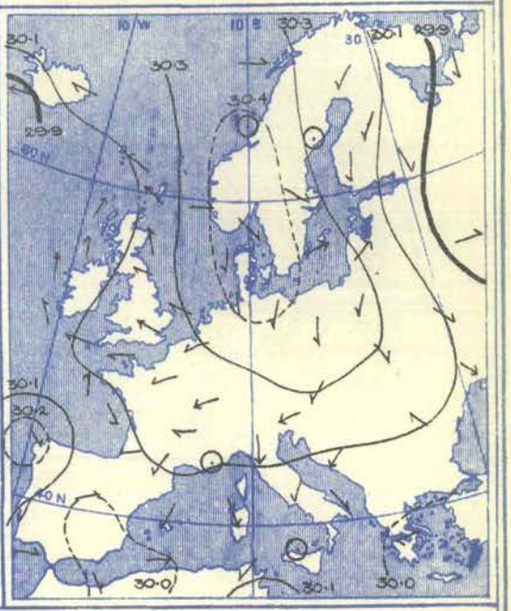
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the major portion of our area, but dull in Scotland, with rain at Stornoway, and overcast in the north-east of the Continent, with rain at Hernösand and snow at Archangel. Overcast at some Algerian stations, and rainy at Oran. Heavy rain later in the extreme west of Ireland and slight falls in Scotland, but weather very fine in nearly all other parts of our area.

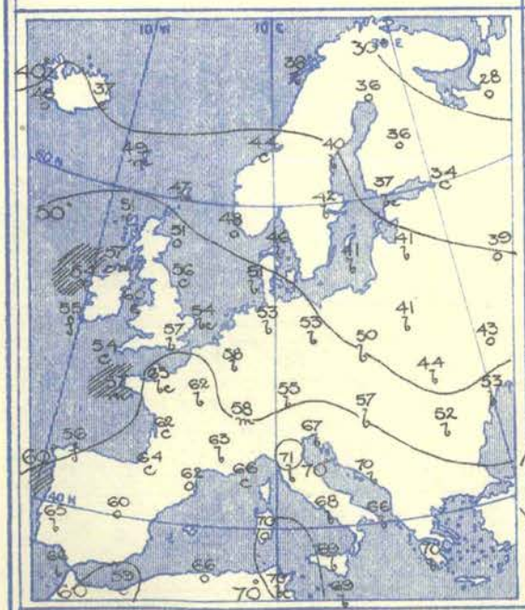
Temperature risen over our Islands and the nearer regions of the Continent. Morning readings ranging from about 80° in Greece and above 70° in some other Mediterranean districts to about 55° in various parts of Ireland, England, and Germany, to below 40° in the north-east of the Continent, and to about 32° in places. Maxima during day 76° in Wales and above 70° in many parts of England. Thermometer rising to between 70° and 80° throughout central and southern Europe, to above 80° at several stations, and to 89° at Patras.

Wind in morning showing a well-defined cyclonic circulation over the north-east of Europe, and an anticyclonic movement over the North Sea region, the central countries, and France. Northerly current strong over the Gulf of Bothnia. A moderate Southerly breeze prevailing on our western coasts, and light or moderate Northerly breezes over the Mediterranean and Italy. No change of importance during day.

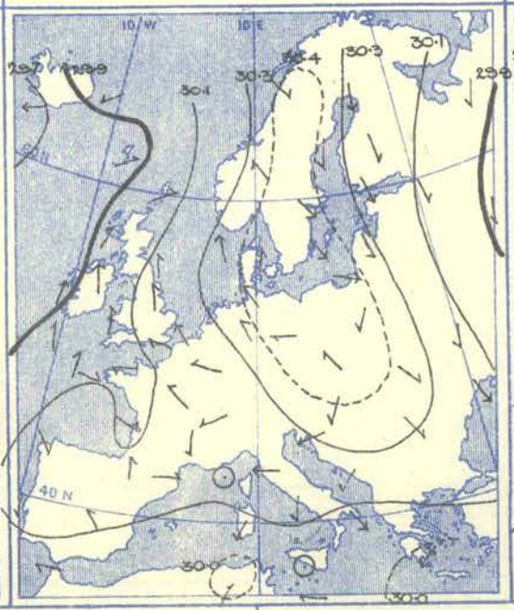
Barometer in morning 30·3 ins. to above 30·4 ins. in a large high pressure extending from the northward and covering the North Sea, Denmark, and central Europe. Relatively low in the south of our area and off the west of Ireland, and as low as 29·7 ins. in a depression having its minimum over the Gulf of Finland. Anticyclone and depression both moving eastwards during day, and a large system of low pressure on the Atlantic causing a fall of the mercury in Ireland and Scotland. Pressure decreasing over the south of England and the north and west of France.

Friday, 21st May, 1909.

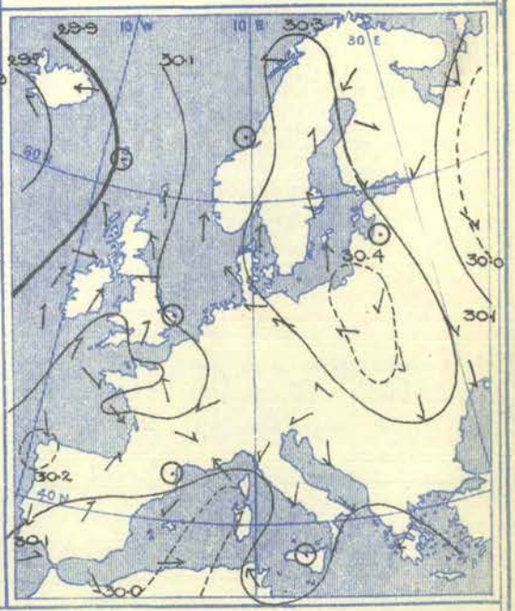
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine and bright generally, but dull, with some rain locally in the west and north of these Islands, and overcast in the north-east of our area, as well as at some stations in the far south; rain falling at Palma. A few slight showers later in the extreme west and north of these Islands and in Scandinavia, but weather continuing very dry generally.

Temperature risen over the United Kingdom and the western regions of the Continent, fallen or changed irregularly elsewhere. Readings in morning about 60° in some English localities, Belgium, and most of France, and about 70° at many stations in the far south of our area. As low as 28° at Archangel, and below 40° in the north-east of Europe generally. Rising during day to 80° in several parts of England and to about 70° at some Irish and Scottish stations, to between 80° and 90° over a large portion of France, and to about 80° over most of the Mediterranean region.

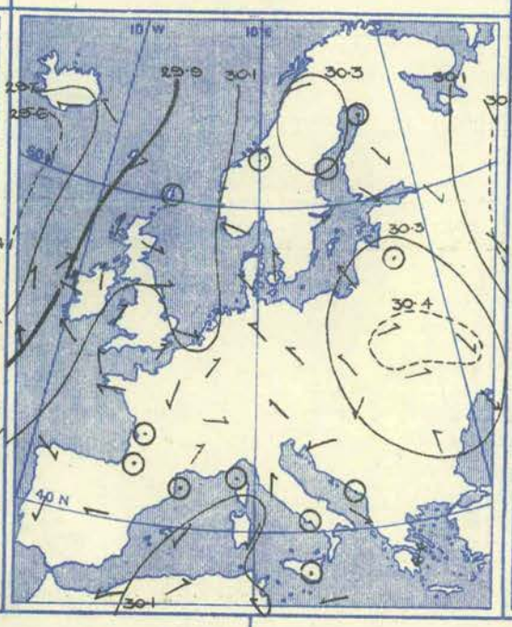
Wind in morning showing a feeble anticyclonic movement around Scandinavia, Germany, and Poland, and an ill defined and slight cyclonic circulation over Brittany and the Channel. A light to moderate Southerly breeze prevailing over these Islands generally, and a strong gale from East in the north-west of Iceland. A North-Westerly gale blowing at Athens, but a light or moderate breeze from varying quarters most prevalent in the south of our area. No change of a general character during day.

Barometer in morning ranging from above 30·4 ins. in a high pressure system extending from Bodö as far south as Buda-Pesth to below 29·7 ins. in a large depression off the south-west of Iceland. A very shallow disturbance existing over Brittany. Latter system moving north-eastwards during day and barometer rising in its rear and also in Ireland. No great modification occurring in the general distribution of pressure, and anticyclone maintaining its position with very little diminution in intensity.

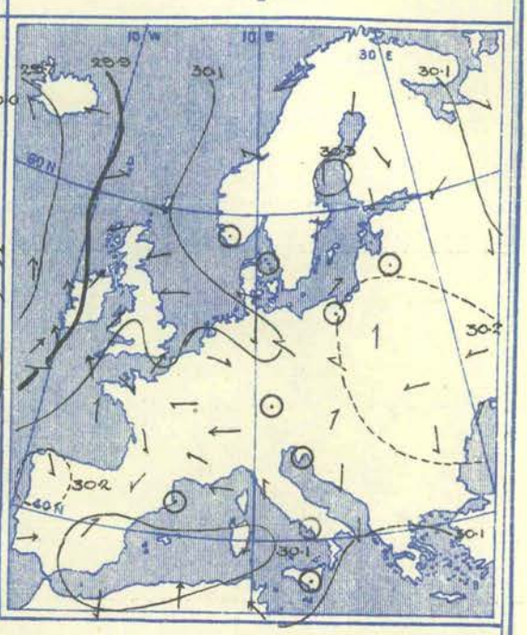
Saturday, 22nd May, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over our area generally, but misty or foggy on some parts of our west and south coasts; overcast in the south of Sweden, and rainy at Karlstad. Some showers later at many places in the west and north of these Islands and thunder at Liverpool, but conditions continuing dry and generally very bright elsewhere. Some thunder experienced at Lyons.

Temperature changed rather irregularly. Morning readings about 60° in the south-east of England and very little lower in the east of Scotland, above 70° at several stations in the south of our area, and as high as 77° at Patras. Below 50° over Russia and the north-east of Europe, and below 40° in places. Rising later to about 80° in the south-east of England and the nearer regions of the Continent, and also over a large portion of South Germany and southern Europe, but maxima below 60° at some of our western and northern stations.

Wind in morning light and anticyclonic over our area as a whole, but cyclonic over the North Sea region, and also over the Mediterranean. A gale from the Northward prevailing at Athens. Not much change as a whole later in day, but Southerly current becoming more decided in the west of this country.

Barometer in morning high over nearly all the eastern half of our area, low in a large disturbance on the Atlantic, and relatively low over the western portion of the Mediterranean and also in a very shallow depression over the North Sea. A shallow depression of thunder-storm type appearing over England during day, and a decrease of pressure taking place along our Atlantic seaboard and in Iceland. Barometer falling somewhat within the high pressure region of eastern Europe.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1909.										Metres.	
1	May 16th, 10.10 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature	284°	280°	278°	275°				1,000	Half overcast, Fr.-Cu., haze. Frequent convection currents. Clouds not reached.
			Humidity ..	60%	60%	75%	90%					
			Wind	80°, 10	80°, 13	90°, 13	100°, 13					
2	May 18th, 10.32 a.m. to 1.45 p.m.	Howard Estate, Glossop, 335 m.	Temperature	281°	279°	278°	273°	268°	265°	264°	261°	Overcast at first, fine later. Wind very steady. Clouds Cu.-N. 5 to Cu. 2 at 1,600 m.
			Humidity ..	65%	65%	65%	62%	60%	45%	30%	29%	
			Wind	286°, 7	282°, 9	280°, 10	272°, 14	277°, 14	272°, 14	268°, —	265°, —	3,000
3	May 19th, 9.59 a.m. to 11.6 p.m.	Howard Estate, Glossop, 335 m.	Temperature	285°	284°	283°					279°	Fine. Wind light. Clouds, Cirrus and Cumulus 1 to 6.
			Humidity ..	51%	47%	45%					44%	
			Wind	204°, 5	205°, 8	205°, 10					218°, 16	800
4	May 20th, 10.0 a.m. to 12.56 p.m.	Howard Estate, Glossop, 335 m.	Temperature	291°	289°	288°	283°				280°	Bright sunshine all day. Wind light. Clouds 0 to Cl.-Cu. 1.
			Humidity ..	52%	53%	53%	59%				70%	
			Wind	186°, 5	187°, 8	187°, 10	190°, 10				197°, 9	1,300
5	May 20th, 10.18 a.m. to 12.25 p.m.	Brighton, 115 m.	Temperature	291°	291°	291°					289°	Cloudless. Light wind falling off above.
			Humidity ..	50%	50%	50%					50%	
			Wind	135°, 6	135°, 10	135°, 10					135°, 10	600
6	May 21st, 10.19 a.m. to 1.0 p.m.	Howard Estate, Glossop, 335 m.	Temperature	295°	293°	292°	286°	280°			279°	Fine, wind light. Clouds, Cirrus and Cumulus 1 to 7.
			Humidity ..	43%	43%	43%	51%	58%			60%	
			Wind	190°, 4	186°, 8	181°, 10	185°, 11	191°, 13			193°, 14	1,600
7	May 22nd, 5.5 a.m. to 5.42 a.m.	Howard Estate, Glossop, 335 m.	Temperature	284°	285°	286°					286°	Bright sunshine and a dead calm. Clouds, Cirrus 1. Ascent about sunrise, hence rise in temp. instead of usual fall.
			Humidity ..	83%	83%	80%					80%	
			Wind	—, 0	298°, —	312°, —					312°, —	500

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7
No. of Kites or Balloons ..	1	3	1	3	2	3	1
Area of Surface (sq. m.) ..	7	23	8	23	10	23	—
Capacity of Balloon (cub. m.) ..	—	—	—	—	—	—	2·5
Length of Wire (m.)	1,500	4,400	600	2,000	1,300	2,400	600

NOTE.—In the Table of "Apparatus used," on p. 160 of last week's Report, for "Length of Wire (cub. m.)," in line 3, *read* "Capacity of Balloon (cub. m.)."

63, Victoria Street, London, S.W. *May 26th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 21. TWENTY-FIRST WEEK, SUNDAY MAY 23RD TO SATURDAY MAY 29TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was much less bright over the Kingdom generally than during the preceding weeks of the month, and showers or periods of steady rain were experienced in all districts. Thunderstorms occurred in various parts of the country sometime during the week, but they were not as a rule severe.

Temperature exceeded the average in all districts, the divergence being greatest (4°·3) in England N.E. The highest of the maxima were experienced on the 23rd or 24th at nearly all stations, and ranged from 80° in England E. and the Midland Counties and 79° in England S.E. to 65° in Ireland N. and to 63° in Scotland N. The lowest of the minima, which occurred on rather irregular dates, varied from 33° in Ireland S. and 36° in England S.W., to 42° in England N.E. and N.W., and to 48° in the English Channel. The lowest grass readings reported were 22° at Llangammarch Wells and at Burnley, 29° at Birmingham, 30° at Cambridge, and 31° at Greenwich.

Mean Temperature of the Sea.—On most parts of the coast, except the south-west of England, the water was rather colder than during the corresponding week of last year. The actual means for the week ranged from 56°·5 at Margate, 55° at Newquay, and about 54° at Salcombe, Teelin, and Seafield, to about 47° at Scarborough, and to about 46°·1 at Lerwick and Burnmouth.

Rainfall was considerably more than the average in all districts excepting the English Channel, where the excess was slight.

Bright Sunshine slightly exceeded the normal in the east and south-east of England, but was below it elsewhere. The percentage of the possible duration ranged from 52 in England S.E., 49 in the English Channel, and 46 in England E., to 29 in Ireland N. and to 22 in Scotland N.

Barometer and Wind.—Depressions from the Atlantic, of variable size and of no great depth, travelled over these islands or their immediate neighbourhood, and the pressure changes were consequently frequent and rather considerable. The wind was generally light or moderate from between South-West and West, except in Scotland, where it was mainly between South and South-East or East. In the Hebrides and Shetland it sometimes blew with the force of a strong breeze, and a strong breeze or high wind prevailed for a time on our southern coasts on Wednesday.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 140.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Very unusual	Unusual	Unusual	Moderate	Unusual	Unusual	Moderate	Unusual	Moderate	Moderate
	Rainfall ...	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Very heavy	Heavy	Heavy	Moderate
	Sunshine ...	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 12 weeks from Mar. 7th, 1909.	Warmth ...	4 * 3	5 * 6	6 * 2	4 * 1	6 * 2	3 * 3	6 * 1	6 * 2	4 * 3	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	7 * 2	7 * 4	6 * 4	5 * 4	5 * 3	4 * 4	6 * 5	4 * 4	5 * 4	5 * 4	4 * 4
	Sunshine ...	2 * 2	3 * 3	4 * 4	5 * 4	6 * 3	6 * 3	5 * 4	7 * 3	6 * 3	5 * 4	6 * 3	5 * 4

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	5 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

7929 400 Wy. & S. Ltd. 6—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-FIRST WEEK—May 23rd to May 29th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	63	41	56·7	46·2	51·1	+ 2·4	64	+ 12	0	− 4	6	+ 2	1·26	+0·69	26	− 13	22	−11
Eastern																		
1. SCOTLAND, EAST	70	38	59·7	46·0	52·4	+ 2·8	73	+ 14	0	− 4	5	+ 2	1·15	+0·64	38	− 5	33	− 5
2. ENGLAND, N.E.	74	42	62·7	48·2	55·0	+ 4·3	91	+ 29	0	− 1	5	+ 2	0·99	+0·59	43	− 2	38	− 2
3. ENGLAND, EAST	80	40	64·7	48·4	56·1	+ 3·4	99	+ 22	0	− 1	4	+ 1	0·94	+0·50	50	+ 2	45	+ 2
4. MIDLAND COUNTIES	80	38	64·2	47·4	55·3	+ 2·7	93	+ 16	0	− 2	5	+ 2	1·10	+0·58	41	− 2	36	− 2
5. ENGLAND, S.E.	79	37	63·1	48·4	55·3	+ 1·3	93	+ 8	0	0	4	+ 1	1·01	+0·57	57	+ 9	52	+ 8
Western																		
6. SCOTLAND, WEST	68	38	59·1	47·4	52·9	+ 1·7	76	+ 9	0	− 2	6	+ 2	1·29	+0·65	34	− 12	30	−11
7. ENGLAND, N.W.	69	42	60·5	48·1	53·9	+ 1·8	83	+ 11	0	− 1	5	+ 2	0·98	+0·46	35	− 12	31	−10
8. ENGLAND, S.W.	74	36	59·8	48·0	53·5	+ 0·4	81	+ 2	0	− 1	5	+ 2	1·36	+0·86	38	− 10	35	− 9
9. IRELAND, NORTH	65	40	58·8	48·0	53·1	+ 1·5	78	+ 10	0	− 1	6	+ 2	0·81	+0·27	32	− 12	29	−11
10. IRELAND, SOUTH	66	33	59·2	48·5	53·5	+ 0·5	81	+ 4	0	0	5	+ 2	1·13	+0·56	33	− 15	30	−13
11. ENGLISH CHANNEL	74	48	60·5	50·1	55·0	+ 0·7	91	+ 5	0	0	5	+ 2	0·58	+0·09	53	− 3	49	+ 3

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 12 Weeks, March 7th to May 29th, 1909.

0. SCOTLAND, NORTH	72	20	*	*	*	*	334	+ 3	226	+ 3	54	0	6·95	−2·37	368	+ 1	31	0
Eastern																		
1. SCOTLAND, EAST	75	7	*	*	*	*	382	− 14	279	+ 39	52	+ 7	8·69	+2·90	387	− 13	33	− 1
2. ENGLAND, N.E...	81	21	*	*	*	*	492	+ 93	185	+ 11	44	+ 3	6·27	+1·61	478	+ 47	42	+ 4
3. ENGLAND, EAST	82	21	*	*	*	*	556	+ 43	149	− 33	41	+ 2	4·70	+0·21	568	+122	50	+11
4. MIDLAND COUNTIES.. ..	82	17	*	*	*	*	599	+ 72	197	+ 1	39	+ 1	5·13	+0·10	521	+117	45	+10
5. ENGLAND, S.E.	82	13	*	*	*	*	556	+ 2	113	− 9	41	+ 4	5·37	+0·67	598	+150	53	+13
Western																		
6. SCOTLAND, WEST	74	19	*	*	*	*	462	+ 35	170	+ 8	44	− 2	8·51	+0·15	450	+ 30	39	+ 3
7. ENGLAND, N.W...	79	19	*	*	*	*	508	+ 60	142	+ 7	42	0	6·67	+0·55	524	+114	46	+10
8. ENGLAND, SW.	81	12	*	*	*	*	525	0	96	− 6	45	+ 4	7·62	+1·02	541	+ 88	48	+ 8
9. IRELAND, NORTH	72	22	*	*	*	*	485	+ 27	116	− 12	52	+ 2	7·20	+0·32	434	+ 35	38	+ 3
10. IRELAND, SOUTH	76	23	*	*	*	*	572	+ 26	88	− 6	53	+ 8	9·82	+2·44	483	+ 43	42	+ 4
11. ENGLISH CHANNEL	78	30	*	*	*	*	695	+ 90	26	− 4	44	+ 1	5·91	+0·40	620	+ 81	55	+ 7

THE YEAR.—Aggregates, &c., for the Period of 21 Weeks, January 3rd to May 29th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	378	− 10	535	− 18	99	− 1	15·87	−4·41	465	+ 10	28	+ 1
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	421	− 43	673	+ 56	83	+ 3	13·54	+2·76	510	− 14	30	− 1
2. ENGLAND, N.E.	81	14	*	*	*	*	527	+ 48	580	+105	70	− 4	9·14	+1·09	624	+ 66	37	+ 4
3. ENGLAND, EAST	82	12	*	*	*	*	591	− 12	554	+ 33	71	− 2	6·95	−0·91	739	+153	44	+ 9
4. MIDLAND COUNTIES.. ..	82	8	*	*	*	*	642	+ 11	642	+110	64	− 7	8·06	−1·15	665	+142	39	+ 8
5. ENGLAND, S.E...	82	0	*	*	*	*	620	− 52	482	+101	66	− 3	8·32	−0·83	786	+204	46	+12
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	516	0	445	+ 21	79	− 7	16·60	−0·61	564	+ 38	33	+ 2
7. ENGLAND, N.W.	79	10	*	*	*	*	566	+ 24	466	+ 80	73	− 5	11·37	−0·42	685	+161	40	+10
8. ENGLAND, S.W.	81	7	*	*	*	*	609	− 67	390	+ 89	73	− 4	11·53	−2·07	730	+142	43	+ 8
9 IRELAND, NORTH	72	14	*	*	*	*	603	+ 20	315	− 30	95	+ 3	13·45	+0·04	543	+ 26	32	+ 2
10. IRELAND, SOUTH	76	15	*	*	*	*	740	+ 8	265	+ 6	90	+ 7	14·67	−0·26	620	+ 45	37	+ 3
11. ENGLISH CHANNEL	78	25	*	*	*	*	870	+ 46	151	+ 42	74	−10	10·07	−1·35	835	+128	49	+ 8

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.
The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.
Information for Stations marked ℳ is supplied by the Royal Meteorological Society, and that for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked M or $ are in connexion with one or other of the Societies, as well as with the Meteorological Office.
Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				Names of Stations.
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*55*	*26th, 28th*	*39*	*25th*	*52·9*	*44·5*	*48·5*	—	*46*	*0*	4	*0·07*	—	*28·8*	—	*19*	—	*Balta Sound.*
	a, Islands. *a* Sumburgh Head ..	55	23rd, 28th	41	25th	52·4	43·3	47·6	+ 1·7	39	0	4	0·66	- 0·39	42·7	+ 2·7	36	+ 2	Deerness.
	a Stornoway	60	24th	45	26th, 27th	54·7	47·0	50·6	+ 2·6	60	0	7	1·62	+ 1·06	21·6	- 22·3	18	- 19	Stornoway.
	a Castlebay, Barra Isd.	*55*	*23rd*	*45*	*27th*	*52·6*	*47·9*	*50·1*	- *1·4*	*57*	*0*	7	*1·49*	—	*25·7*	—	*22*	—	*Castlebay.*
	a Wick	63	23rd	45	23, 24, 26, 27	57·0	45·4	50·9	+ 2·9	62	0	5	0·22	- 0·22	*	*	*	*	* *
	p Strathpeffer	63	23rd, 24th	43	25th	59·6	46·8	52·8	+ 3·7	76	0	7	0·89	+ 0·45	25·2	- 13·7	22	- 12	Strathpeffer.
	b, Main-land. *p* Glencarron ..	58	24, 25, 26th	43	26th	56·3	46·4	51·1	+ 2·9	64	0	7	2·41	+ 1·41	*	*	*	*	* *
	p Fort Augustus	63	24th	44	26th	59·1	47·2	52·8	+ 3·6	76	0	6	1·39	+ 0·90	15·7	- 15·3	13	- 13	Fort Augustus.
	p Fort William	62	24th	43	29th	57·9	47·1	52·2	+ 1·7	71	0	7	2·24	+ 1·41	*	*	*	*	* *
1. SCOTLAND, E.	*p* Gordon Castle S	68	23rd	43	26th, 29th	61·0	45·9	53·0	+ 3·3	77	0	4	0·47	+ 0·01	*32·2*	—	*28*	—	*Gordon Castle.*
	a Nairn	65	23rd, 24th	44	26th, 29th	61·7	46·9	53·9	+ 3·9	83	0	6	0·44	+ 0·06	31·5	—	27	—	Nairn.
	a Aberdeen ..	70	23rd	44	26th	60·1	46·1	52·7	+ 3·6	75	0	5	0·75	+ 0·29	41·3	- 1·7	35	- 2	Aberdeen.
	a Balmoral ..	65	23rd	38	24th	57·0	43·6	49·9	+ 2·7	55	0	2	1·01	+ 0·48	38·5	—	33	—	Crathes S.
	p Crieff .. .. S	65	23rd, 24th	40	26th	59·7	45·3	52·1	+ 0·9	71	0	5	2·36	+ 1·78	29·9	—	26	—	Balruddery
	a Leith .. .. S	65	23rd	45	26th, 27th	60·6	49·3	54·6	+ 3·8	88	0	6	1·05	+ 0·65	36·6	- 0·5	32	- 1	Edinburgh.
	a West Linton.. S	64	24th	42	24th	57·1	45·4	50·9	+ 3·0	62	0	6	1·54	—	*28·6*	—	*25*	—	*West Linton.*
	p Marchmont .. S	67	24th	43	26th, 28th	60·1	45·3	52·3	+ 3·5	72	0	4	1·55	+ 1·01	50·2	+ 9·2	44	+ 8	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	66	23rd	45	26th	61·2	47·5	53·9	+ 4·6	83	0	3	1·65	+ 1·17	41·3	—	36	—	Cockle Park.
	a, North. *a* Shields	69	23rd	45	26th, 28th	61·6	46·9	53·8	+ 4·3	91	0	5	1·45	+ 1·05	*41·9*	+ *8·9*	*37*	+ *8*	*Newcastle.*
	p Durham	66	24th	45	28th	63·3	47·6	55·0	+ 4·9	88	0	4	0·85	+ 0·43	45·8	+ 6·6	40	+ 6	Durham.
	p Rounton .. M	69	24th	42	24th	62·6	47·3	54·5	+ 5·2	90	0	6	1·01	+ 0·58	41·3	—	37	—	Scarborough.
	p Scarborough.. M	73	23rd	47	25th, 26th	61·9	48·4	54·8	+ 4·3	97	0	5	1·09	+ 0·64	31·5	- 9·1	28	- 8	York.
	p York	72	23rd	45	28th	63·1	49·4	55·8	+ 3·5	97	0	5	0·71	+ 0·35	*	*	*	*	* *
	b, South. *a* Spurn Head ..	73	23rd	48	26th	61·4	50·4	55·6	+ 4·7	95	0	5	0·70	+ 0·28	50·9	—	45	—	Skegness.
	a Lincoln	72	24th	45	24th, 26th	64·1	47·5	55·3	+ 2·5	93	0	5	0·73	+ 0·29	46·0	—	41	—	Rauceby.
	a Fulbeck	74	23rd, 24th	45	26th	64·7	49·0	56·4	+ 4·5	101	0				*58·8*	—	*53*	—	*Lowesoft.*
															40·8	—	37	—	Cromer.
3. ENGLAND, E.	*p* Cromer	79	23rd	46	26th, 28th	64·3	48·5	55·9	+ 4·8	97	0	5	0·80	—	42·0	- 5·1	38	- 5	Hillington.
	p Hillington .. M	76	23rd	42	24th	65·9	46·9	55·8	+ 3·6	97	0	4	1·19	+ 0·75	57·8	—	52	—	Yarmouth.
	a, North. *a* Yarmouth	75	23rd	46	28th	61·9	49·4	55·3	+ 4·1	93	0	2	0·75	+ 0·36	*	*	*	*	* *
	a Norwich	79	23rd	43	28th	66·1	48·1	56·6	+ 4·9	102	0	4	0·82	—	46·4	- 3·4	42	- 3	Geldeston.
	p Geldeston	80	23rd	40	28th	65·4	47·3	55·8	+ 3·9	97	0	3	0·74	+ 0·34	53·3	+ 6·8	48	+ 6	Cambridge.
	p Cambridge	78	23rd	42	24th	65·8	47·8	56·3	+ 3·2	100	0	5	1·25	+ 0·82	*59·1*	—	*53*	—	*Felixstowe.*
	a Felixstowe	*74*	*23rd*	*43*	*28th*	*62·4*	*49·3*	*55·5*	+ *3·3*	*95*	*0*	*3*	*0·75*	—	57·1	—	51	—	Clacton.
	b, South. *a* Clacton-on-Sea ..	73	23rd	46	28th	63·0	50·7	56·5	+ 4·8	102	0	2	0·53	—	50·9	+ 5·6	46	+ 5	Rothamsted.
	a Rothamsted	76	23rd	43	24th, 28th	64·4	46·9	55·1	+ 3·0	92	0	5	1·03	+ 0·58	*57·0*	—	*52*	—	*Southend.*
	a Shoeburyness	*76*	*23rd*	*49*	*26th, 28th*	*64·1*	*50·9*	*57·1*	+ *2·9*	*106*	*0*	*4*	*0·56*	+ *0·29*	49·6	—	45	—	Tottenham.
	p Tottenham	78	23rd	47	28th	65·2	50·3	57·3	+ 3·9	107	0	5	1·36	—					
4. MIDLAND COUNTIES.	*a* Harrogate	68	24th	43	28th	61·0	46·5	53·3	+ 3·0	79	0	5	0·86	+ 0·37	33·9	—	30	—	Harrogate.
	a Bawtry	80	23rd	44	24th, 26th	68·6	48·4	57·9	+ 5·4	111	0	5	0·87	+ 0·44	36·1	- 2·9	32	- 3	Worksop.
	p Buxton .. M	*68*	*24th*	*40*	*28th*	*60·5*	*43·8*	*51·7*	+ *3·1*	*68*	*0*	*6*	*1·83*	+ *1·11*	*30·4*	—	*27*	—	*Buxton.*
	a, East. *a* Nottingham ..	74	23rd	44	26th, 28th	64·7	48·0	55·9	+ 3·5	97	0	5	0·97	+ 0·55	47·2	—	42	—	Nottingham.
	p Birmingham, Edgbsn	71	24th	43	28th	62·7	47·4	54·6	+ 2·5	88	0	5	1·40	+ 0·92	34·5	—	31	—	Birmingham.
	a Raunds .. M	76	23rd	43	26th	66·6	47·9	56·7	+ 4·3	103	0	5	1·33	—	*	*	*	*	* *
	a Oxford	74	23rd	42	28th	64·3	48·3	55·8	+ 2·5	97	0	5	1·42	+ 1·02	44·9	- 0·1	41	0	Oxford.
	a Cheadle .. M	71	24th	42	26th	62·4	46·9	54·2	+ 3·4	85	0	5	1·36	+ 0·86	34·3	—	31	—	Sheffield.
	b, West. *p* Shrewsbury ..	71	24th	43	26th	63·7	48·0	55·4	+ 2·4	94	0	4	0·48	—	*	*	*	*	* *
	a Hereford .. M	72	24th	38	28th	64·7	46·0	54·8	+ 1·7	90	0	5	0·73	+ 0·25	*	*	*	*	* *
	a Cirencester	73	23rd	39	28th	64·1	45·7	54·4	+ 2·7	87	0	5	1·25	+ 0·77	44·4	- 2·6	40	- 2	Cirencester.
	a Bath	72	23rd	44	28th	63·9	48·0	55·5	+ 2·1	95	0	5	1·45	+ 1·00	49·3	—	45	—	Bath.
															63·4	—	*58*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	75	23rd	47	26th, 28th	65·8	49·6	57·2	+ 3·4	106	0	5	1·33	+ 0·94	52·1	+ 6·0	47	+ 6	Kew.
	a Marlborough ..	72	23rd	37	24th, 28th	63·3	44·6	53·4	+ 3·0	80	0	5	1·04	+ 0·60	45·5	+ 2·7	41	+ 3	Marlborough.
	a Margate	79	23rd	45	28th	65·1	50·4	57·3	+ 4·6	107	0	2	0·48	+ 0·13	63·8	+18·7	58	+17	Margate.
	a Wisley, Surrey ..	76	23rd	44	24th	65·1	47·6	55·8	+ 1·9	97	0	5	1·28	—	57·5	—	52	—	Wisley.
	a Swarraton .. M	73	23rd	37	24th	63·9	44·7	53·7	+ 1·8	82	0	5	1·25	+ 0·79	59·4	—	54	—	Worthing.
	a Tunbridge Wells M	75	23rd	45	28th	63·4	47·8	55·1	+ 2·6	92	0	4	1·25	+ 0·82	57·5	+10·2	52	+ 9	Tunbridge Wells.
	a Dungeness	63	23rd, 24th	49	27th, 28th	59·4	50·7	54·8	+ 2·1	90	0	5	0·50	+ 0·22	59·0	—	54	—	Littlestone.
	p Hastings	67	23rd	47	28th	60·9	49·9	55·1	+ 1·9	92	0	5	0·77	+ 0·41	*60·6*	+ *6·5*	*55*	+ *6*	*Hastings.*
	p Southampton ..	71	23rd	43	28th	63·8	48·8	55·9	+ 0·9	97	0	5	1·07	+ 0·63	53·9	+ 3·7	49	+ 3	Southampton.
	a Ventnor	64	24th	47	28th	60·4	49·8	54·8	+ 0·9	90	0	4	1·11	+ 0·72	51·1	- 0·3	47	0	Ventnor.
															67·0	+15·3	61	+14	Eastbourne.
LONDON	*a Westminster* ..	*76*	*23rd*	*47*	*28th*	*65·6*	*50·3*	*57·5*	+ *3·4*	*109*	*0*	*5*	*1·25*	+ *0·85*	*46·1*	+ *7·6*	*42*	+ *7*	*Westminster.*
	a Greenwich	*81*	*23rd*	*46*	*24, 26, 28th*	*68·6*	*48·6*	*58·0*	+ *3·7*	*113*	*0*	*5*	*2·95*	+ *0·55*	*55·9*	+ *13·1*	*51*	+ *12*	*Greenwich.*
6. a, SCOTLAND. W. .. .. b, ISLE OF MAN ..	*p* Laudale	64	24th	45	26th	58·5	48·7	53·3	+ 2·2	79	0	7	2·99	+ 2·12	*	*	*	*	* *
	a Poltalloch .. S	65	24th	45	26th, 27th	59·3	47·0	52·8	+ 1·6	76	0	6	1·51	+ 0·88	*	*	*	*	* *
	p Glasgow	68	23rd	44	26th	60·5	48·0	53·9	+ 2·9	83	0	7	1·38	+ 0·80	26·8	- 10·8	23	- 9	Glasgow.
	p Rothesay .. S	64	24th	46	26th	58·7	48·7	53·4	+ 2·3	80	0	6	1·08	+ 0·43	*	*	*	*	* *
	a Kilmarnock .. S	62	23rd, 24th	47	23,24,26,28,29	58·6	47·6	52·8	+ 1·6	76	0	5	0·53	—	*31·5*	—	*27*	—	*Kilmarnock.*
	a Colmonell ..	65	23rd	39	24th	60·4	46·0	52·8	+ 1·4	83	0	6	0·75	+ 0·18	*	*	*	*	* *
	p Dumfries ..	66	23rd	43	24th	60·4	47·9	53·8	+ 1·8	83	0	6	1·50	+ 0·93	*	*	*	*	* *
	p Cally, Gatehouse	64	24th	38	24th	57·8	45·6	51·3	+ 0·1	65	0	7	1·27	+ 0·57	*	*	*	*	* *
	p Douglas	61	23rd, 29th	45	28th	57·8	46·9	52·0	+ 1·2	70	0	4	0·59	+ 0·02	41·2	- 10·2	37	- 9	Douglas.
															35·0	—	31	—	Hoylake.
7. a, ENGLAND, N.W. .. b, NORTH WALES ..	*p* Aspatria	63	24th	46	24th, 26th	59·0	47·9	53·1	+ 2·6	78	0	7	0·76	+ 0·20	32·8	—	29	—	Aspatria.
	p Newton Rigg ..	66	24th	42	24th	59·4	46·0	52·3	+ 2·6	72	0	4	1·08	+ 0·54	40·0	- 5·7	35	- 5	Newton Rigg.
	p Stonyhurst	65	24th	44	26th	60·2	47·7	53·6	+ 2·2	81	0	6	1·37	+ 0·74	26·8	- 17·8	24	-16	Stonyhurst.
	p Blackpool .. M	66	24th	43	24th	59·2	47·9	53·2	+ 1·5	78	0	5	1·40	+ 0·91	42·2	- 4·1	37	- 4	Blackpool.
	p M'nch'ster, Prestwich	69	24th	45	24, 26, 28th	61·0	47·8	54·0	+ 2·5	84	0	5	1·54	+ 0·97	*23·5*	*-16·9*	*20*	*-15*	*Prestwich.*
	a Liverpool (Bidston)	67	24th	44	26th	61·7	49·1	55·0	+ 2·9	91	0	5	0·85	+ 0·40	*39·6*	—	*35*	—	*Liverpool.*
	a Hawarden Bridge ..	69	24th	43	26th	63·3	49·0	55·7	+ 2·5	96	0	5	0·67	+ 0·26	*39·7*	*- 9·1*	*35*	*- 8*	*Southport.*
															39·5	—	*35*	—	*Rhyl.*
	p Llandudno .. M	64	23rd, 24th	45	26th	61·2	49·4	55·0	+ 2·7	91	0	4	0·62	+ 0·19	41·7	- 5·7	37	- 5	Llandudno.
	a Holyhead	62	24th	48	29th	58·7	49·3	53·7	+ 2·3	82	0	5	0·77	+ 0·34	32·0	—	29	—	Aberdovey.
	p Bettws-y-Coed ..	69	24th	42	24th	61·4	46·9	53·7	+ 1·6	82	0	4	0·71	—	29·4	—	26	—	Bettws-y-Coed.
															26·7	—	24	—	Aberystwyth.
															33·6	—	30	—	Llangammarch Wells.
8. a, SOUTH WALES .. b, ENGLAND, S.W. ..	*a* Llangammarch Wells	70	24th	36	24th	59·8	44·6	51·7	+ 0·9	68	0	6	2·09	—	42·5	- 8·4	38	- 8	Pembroke.
	a Pembroke	60	24th	48	26th	55·0	48·9	51·8	+ 0·3	69	0	5	0·87	+ 0·46	*53·3*	—	*48*	—	*Cardiff.*
	a Cardiff	69	24th	44	24th, 28th	61·1	47·1	53·7	+ 0·1	82	0	7	1·72	+ 1·17	*44·3*	*- 7·3*	*40*	*- 7*	*Tenby.*
															46·0	—	*42*	—	*Clifton.*
	a Clifton	74	24th	47	26th, 28th	63·3	50·4	56·5	+ 2·5	102	0	5	1·60	+ 1·10	*	*	*	*	* *
	a Shaftesbury ..	68	23rd	43	28th	61·2	46·9	53·6	+ 2·3	81	0	4	0·93	+ 0·45	44·6	- 6·2	41	- 6	Newquay.
	a Arlington	67	24th	43	24th	59·3	47·0	52·8	+ 1·6	76	0	7	2·34	+ 1·71	34·2	- 12·5	31	-11	Cullompton.
	a Cullompton ..	70	24th	41	28th	63·6	47·2	54·9	+ 1·8	90	0	5	1·29	+ 0·82	*48·2*	—	*44*	—	*Weymouth.*
	a Portland Bill ..	57	24, 28, 29th	41	27th	55·6	48·6	51·9	- 0·9	69	0	5	0·86	—	42·5	- 8·4	39	- 8	Plymouth.
	p Plymouth	69	24th	44	24th	60·6	49·3	54·6	+ 0·6	88	0	4	0·95	+ 0·49	42·7	-11·6	39	-11	Falmouth.
	p Falmouth	62	23rd	48	27th	58·7	49·5	53·8	+ 0·8	83	0	5	0·93	+ 0·44	*50·5*	*- 1·8*	*46*	*- 2*	*Torquay.*
															*	*	*	*	* *
9. IRELAND, N.	*a* Malin Head	62	24th	46	26th	57·3	48·0	52·4	+ 2·2	73	0	6	0·61	+ 0·14	*	*	*	*	* *
	a, West. *a* Blacksod Point ..	59	23rd	48	26, 27, 28th	57·1	49·3	53·0	+ 1·3	77	0	6	1·02	+ 0·42	*	*	*	*	* *
	p Markree Castle ..	65	23rd	43	24th	60·3	47·3	53·4	+ 2·6	80	0	5	0·92	+ 0·32	30·4	-12·3	27	-11	Markree Castle.
	a Birr Castle	64	23rd	40	24th	59·6	47·9	53·4	+ 1·4	80	0	6	1·20	+ 0·70	*34·9*	*-7·2*	*31*	*- 6*	*Birr Castle.*
	b, East. *p* Armagh	65	23rd	46	24th 28th,	60·3	48·2	53·9	+ 2·8	83	0	7	0·63	+ 0·05	34·4	- 7·8	30	- 7	Armagh.
	a Donaghadee	63	23rd	43	24th	58·4	47·1	52·4	+ 1·4	73	0	6	0·47	- 0·05	*	*	*	*	* *
10. IRELAND, S.	*p* Dublin, City ..	66	23rd	48	28th	61·5	50·2	55·5	+ 2·0	95	0	5	0·69	+ 0·22	36·4	-11·6	33	-10	Phœnix Park.
	a, East. *a* Kilkenny	65	23rd	39	24th	59·9	47·6	53·4	+ 1·4	80	0	5	0·97	+ 0·47	*	*	*	*	* *
	a Waterford	63	29th	40	24th	59·3	48·4	53·5	+ 0·8	81	0	5	1·53	+ 0·99	*	*	*	*	* *
	a Birr Castle	64	23rd	40	24th	59·6	47·9	53·4	+ 1·4	80	0	6	1·20	+ 0·70	34·9	- 7·2	31	- 6	Birr Castle.
	a Foynes	62	28th	43	24th	58·4	47·8	52·8	- 0·3	76	0	6	0·75	+ 0·25	*	*	*	*	* *
	b, West. *a* Cahir .. .. M	65	23rd	33	24th	59·6	46·3	52·6	+ 0·1	74	0	5	1·40	—	*	*	*	*	* *
	a Killarney	65	23rd	46	23, 24, 27th	59·3	48·6	53·6	+ 1·3	81	0	6	1·50	+ 0·83	*	*	*	*	* *
	a Valencia	60	23rd	48	26th, 27th	56·6	50·0	53·1	+ 0·4	78	0	5	1·15	+ 0·47	31·0	- 16·8	28	-15	Valencia.
	a Roche's Point ..	62	23rd	47	24th	58·7	49·3	53·7	+ 1·0	82	0	5	0·95	+ 0·40	30·3	—	28	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	61	24th	49	27, 28, 29th	58·9	50·4	54·4	+ 1·0	87	0	5	0·56	+ 0·19	45·1	- 9·4	41	- 9	Scilly.
	a Jersey, St. Aubins ..	74	24th	48	26th, 28th	61·3	50·0	55·3	+ 0·7	93	0	4	0·54	+ 0·09	55·8	- 1·2	52	- 1	St. Heliers.
	a Guernsey	70	24th	48	26th	61·2	50·0	55·3	+ 1·5	93	0	5	0·64	+ 0·20	58·8	- 0·2	54	0	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 58·2 hrs.* (+ *7·5 hrs.*), *53* % (+ 7 %); *Bournemouth, 50·7 hrs., 46* %; *Bognor,* hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet
			°	°	°
0.	Balta Sound	—	—	49·1	—
	— —				
	— —				
1.	Aberdeen	—	—	—	46·3
	Crathes	0	33	51·0	46·6
	Balmoral	0	35	—	—
	West Linton	0	38	—	—
	Marchmont	0	38	53·4	—
2.	Cockle Park	0	35	53·4	48·5
	Durham	0	39	—	—
	York	—	—	53·4	48·7
	Hull	0	39	55·0	47·4
	Lincoln	—	—	54·5	48·6
	Rauceby	0	38	58·9	50·4
3.	Norwich	0	39	—	—
	Yarmouth	—	—	59·6	53·4
	Lowestoft	0	42	57·1	51·4
	Cambridge	1	30	57·0	51·6
	Clacton-on-Sea	0	38	56·4	52·8
	Southend	0	47	58·4	—
	Tottenham	0	43	—	52·1
4.	Harrogate	0	40	51·2	48·4
	Huddersfield	0	41	54·0	46·7
	Buxton	0	35	53·4	46·9
	Sheffield	0	36	54·2	47·7
	Nottingham	0	34	56·1	49·8
	Birmingham	1	29	52·1	47·5
	Oxford	0	—	—	—
	Hereford	2	29	—	—
	Cirencester	0	34	—	—
5.	Margate	0	42	56·7	52·1
	Greenwich	0	31	—	—
	Westminster	0	40	—	—
	Kew	0	34	56·0	50·6
	Canterbury	0	40	57·5	52·4
	Tunbridge Wells	0	37	58·4	—
	Wisley	0	35	57·4	52·5
	Worthing	0	40	57·6	52·4
	Portsmouth				
6.	Glasgow	0	44	0	0
	Rothesay	—	—	—	48·7
	Colmonel	0	36	—	—
	Dumfries	—	—	—	—
	Douglas	0	40	—	—
7.	Aspatria	0	40	—	—
	Newton Rigg	0	39	53·3	48·3
	Burnley	1	28	52·1	46·9
	Southport	0	36	56·9	52·4
	Manchester City	0	41	54·0	49·6
	Bettws-y-Coed	0	41	52·7	48·4
8.	Llangammarch Wells	2	22	53·9	48·7
	Cardiff	0	37	56·4	51·4
	Clifton	0	43	—	—
	Bath				
	Plymouth	0	39	58·0	—
9.	Armagh	0	42	55·7	50·9
	Markree	0	36	—	—
10.	Dublin, Trin. Coll.	0	38	55·1	51·4
11.	Guernsey, Brooklyn	0	42	58·3	54·6

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	47	45	46·3
	Kirkwall	50	48	49·4
	Wick	53	50	? 51·1
SCOTLAND, E.	Cromarty	54	46	48·7
	Pennan Bay	52	50	50·8
	Aberdeen, Cove Bay	48	46	47·5
ENGLAND, N.E.	Burnmouth, Berwick	47	45	45·9
	Scarborough	49	46	47·1
ENGLAND, E.	Shipwash Lightship	53	51	51·8
	Margate‡	60	54	56·5
ENGLAND, S.E.	Eastbourne‡	57	54	55·6
SCOTLAND, W.	Lamlash	49	49	49·0
ENGLAND, N.W.	Ballantrae	51	50	50·4
	Port Erin	50	49	49·1
ENGLAND, S.W.	Newquay	55	55	55·0
	Plymouth‡	54	53	53·3
	Salcombe	58	52	54·4
IRELAND, N.W.	Sheephaven	53	52	52·7
	Teelin	58	53	53·8
IRELAND, S.W.	Cleggan	56	52	53·7
	Seafield	57	52	54·4
IRELAND, E.				

‡ Only one observation each day.

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

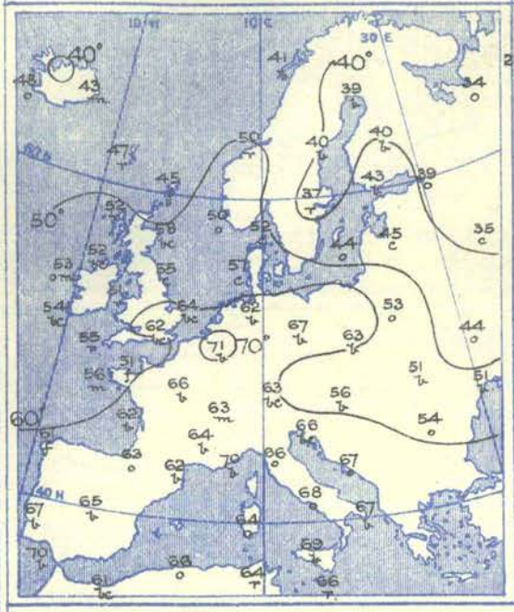
No.	Date, 1909.	Station.	Wind Direction (in Degrees, 90° = E, 180° = S, 270° = W, 360° = N) and Velocity, Metres per Second.																			
			250 metres.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres	4,000 metr's.	4,500 metr's.	5,000 metr's	5,500 metr's.	6,000 metr's.	7,000 mtrs.	8,000 mtrs.	9,000 metr's.	10,000 mtrs.	11,000 metr's.	12,000 metr's.	13,000 metr's.	14,000 metr's.	15,000 metr's.
1	May 2nd, 7.7 p.m.	Ditcham Park, Petersfield, 165 metres.	250°, 2·2	265°, 3·6	360°, 2·5	10°, 2	355°, 4	345°, 9·5	350°, 9·5	350°, 11·5	335°, 12·5	340°, 14	335°, 20											
2	May 4th, 8.15 a.m.	Ditcham Park, Petersfield, 165 metres.	135°, 5·5	140°, 10·5	125°, 13	125°, 13	125°, 12·5	120°, 5·5	125°, 9															
3	May 4th, 7.4 p.m.	Ditcham Park, Petersfield, 165 metres.	80°, 7	90°, 13	120°, 10·5	135°, 11·5	135°, 12	125°, 11	105°, 7	100°, 8·5	105°, 9	90°, 7·5	100°, 7	115°, 5										
4	May 5th, 8.10 a.m.	Ditcham Park, Petersfield, 165 metres.	90°, 5·5	100°, 12	85°, 11	90°, 12	100°, 11·5																	
5	May 5th, 2.54 p.m.	Ditcham Park, Petersfield, 165 metres.	65°, 14	65°, 13	90°, 20	110°, 14·5	120°, 19·5	110°, 16	110°, 16	115°, 16	125°, 17	130°, 16·5	130°, 17	125°, 17	130°, 16·5									
6	May 5th, 6.43 p.m.	Ditcham Park, Petersfield, 165 metres.	—	—	95°, 15	105°, 16	115°, 18	105°, 17·5	110°, 17	105°, 12	105°, 15	120°, 18·5	120°, 18	130°, 17	125°, 14	105°, 14	130°, 15	130°, 16·5	110°, 17					
7	May 6th, 10.33 a.m.	Ditcham Park, Petersfield, 165 metres.	85°, 4·5	95°, 8	105°, 18·5	115°, 13·5	115°, 18·5	130°, 10																
8	May 6th, 6 25 p.m.	Ditcham Park, Petersfield, 165 metres.	—	—	100°, 12·5	110°, 13	120°, 11	115°, 10	120°, 10	120°, 10	90°, 9·5	115°, 10	120°, 10	130°, 12	140°, 12·5	145°, 11	145°, 13	130°, 17	130°, 18	135°, 20	140°, 13·5	145°, 8·5		
9	May 7th, 2.52 p.m.	Ditcham Park, Petersfield, 165 metres.	—	—	—	100°, 14	105°, 10	100°, 11	100°, 10·5	95°, 10	100°, 11	100° 9	115°, 8	120°, 7	100°, 7·5	65°, 4·5	105°, 9	125°, 8	155°, 5·5	130°, 8·5	130°, 5·5	210°, 2		
10	May 7th, 6.29 p.m.	Ditcham Park, Petersfield, 165 metres.	70°, 12·5	70°, 16	95°, 18	95°, 14	100°, 9	95°, 9	100°, 14·5	90°, 9	90°, 10·5	90°, 15	90°, 11·5	85°, 6	80°, 4	60°, 7·5	110°, 5·5	110°, 5·5	100°, 3	140°, 4·5	100°, 4·5	—, 2	40°, 5·5	270°, 0·5
11	May 16th, 6.22 p.m.	Ditcham Park, Petersfield, 165 metres.	50°, 4·5	50°, 9	70°, 8·5	120°, 4·5	150°, 6	190°, 5·5	185°, 6·5															

NOTES.—Nos. **1, 2, 3, 4, 7, 11.**—Pilot balloons, one theodolite assumed rate of ascent 2·53 m.p.s.
4.—Fell near Bishop's Waltham, 12·5 kilometres, W. 12° N.
5.—Large balloon, two theodolites to 2,370 metres.
6.—Ballon sonde, one theodolite, assumed rate of ascent 2·635 m.p.s., fell near Westbury, Wilts, 94 kilometres, W. 22° N.
7.—Found same day in Brecknockshire, 197 kilometres, W. 40° N.
* At 12,800 m.

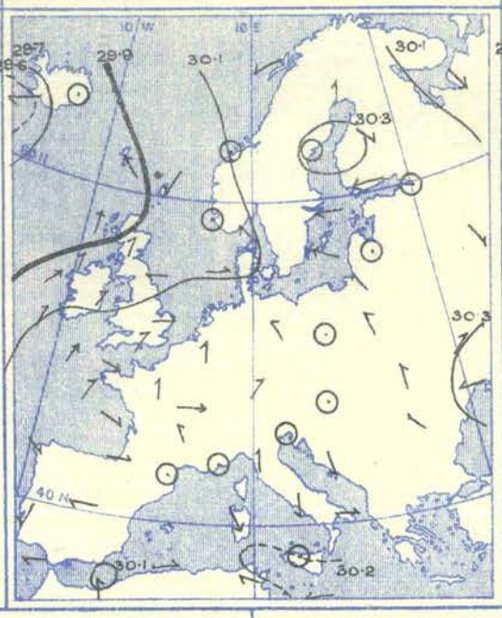
8.—Ballon sonde, two theodolites to 12 kilometres, fell near Beckhampton, Wilts, 81 kilometres, W. 35° N.
9.—Large balloon, two theodolites to 9 kilometres, fell near Stockbridge, Hants, 41 kilometres, W. 20° N.
10.—Ballon sonde, two theodolites to 1,630 m. Fell near Romsey, 46 kilometres, W. 2° N. Seven abrupt changes of wind, direction between 11·5 and 15 kilometres.

Sunday, 23rd May, 1909.

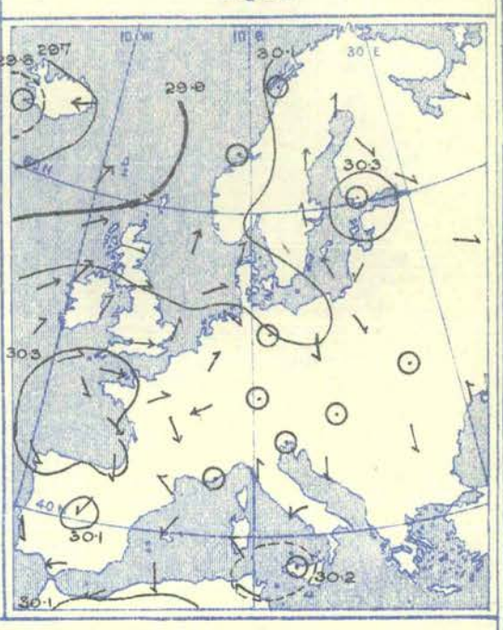
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine over our area as a whole, but dull in a few localities, with rain at Tunis, La Calle, and Malta, and also at Scilly, on the coast of Wales, at Stornoway, Thorshavn, Christiansund, and Stockholm. A little rain later in some other parts of these Islands, Scandinavia, and Algeria, and a thunderstorm at Spurn Head.

Temperature risen in most of the western and southern regions. Readings in morning about 60° over a large part of Britain, between 60° and 70° over the south of Europe, North Germany, and the Low Countries, and as high as 80° at Turin. Below 40° over most of Russia and Finland, as well as at Stockholm. Rising during day to nearly 90° at some inland French stations, to above 80° in some parts of Italy, Spain, and Germany, and also in Greece, and to above 70° over the greater portion of England.

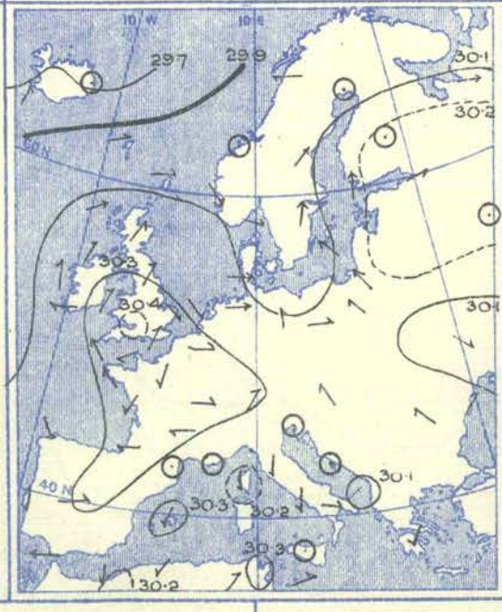
Wind in morning fresh to strong from between South-West and South on our extreme north-west coasts, and calm or light from the Eastward in Iceland. Light and variable anticyclonic breezes prevailing over our area generally. No important change later; veering towards West and decreasing somewhat in force on our north-west coasts.

Barometer in morning 30·2 ins. to above 30·3 ins. over most of northern Europe and also in a large belt extending from the north-west of Spain and the Bay to the Black Sea. Below 29·6 ins. in a depression off the south-west of Iceland, and low on the Atlantic far to the westward of Ireland. A definite anticyclone forming later over the Bay and the west of France and moving over our southern districts. Pressure increasing over these Islands generally, most in the west.

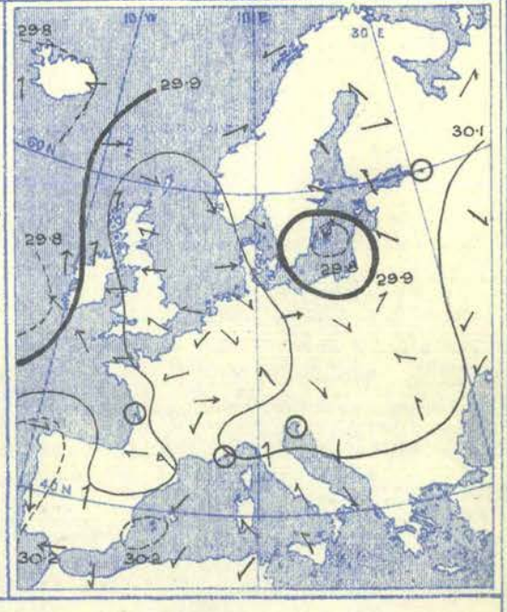
Monday, 24th May, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast on our south-west coasts and rainy in the south of Scandinavia; fair to very fine over nearly all other parts of our area, but a thunderstorm in progress at Tunis. Rain spreading from the westward later, and heavy amounts falling in many parts of Ireland and England and also in the west of France. Thunderstorms occurring at several places in the south of England and in France.

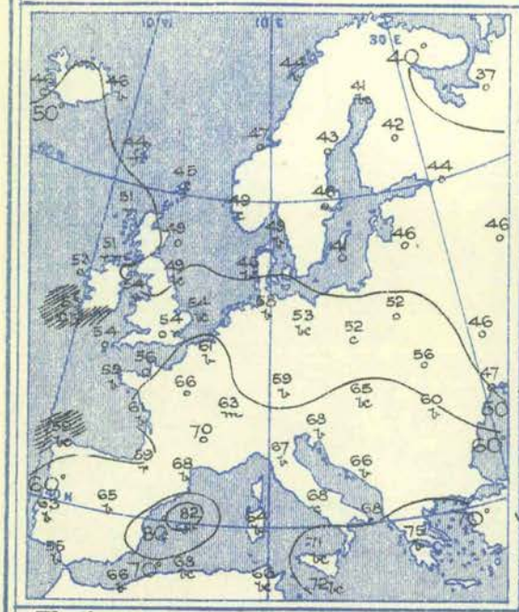
Temperature fallen in most places. Morning readings about 55° in the greater part of this country, about 70° or very little lower over most of the Mediterranean region, and as high as 78° at Barcelona. About 40° or rather lower in the north-east and north of Europe. Maxima during day about 90° at Bilbao and Biarritz, and also at Florence, and within a few degrees of 80° over the far south of our area generally, as well as at some stations in central Europe. Thermometer rising to a little above 70° in various parts of England, but remaining below 60° in some parts of Ireland.

Wind in morning light and anticyclonic over our area generally, but stronger and cyclonic over a large portion of Scandinavia. A moderate to very strong cyclonic circulation existing on the Atlantic far beyond our western coasts. Increasing later to a fresh or strong breeze from between South and South-East in Iceland.

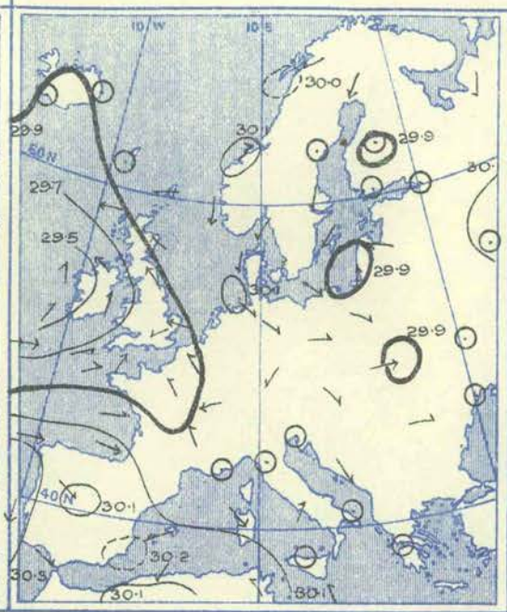
Barometer in morning above 30·3 ins. over England and the nearer parts of the Continent, and above 30·2 ins. over the northern half of Russia. Below 29·8 ins. in Iceland, and below 30·0 in an elongated depression over the region of the Skager Rack and Kattegat. Latter system becoming much modified in form and deeper later, and travelling eastwards. A very brisk fall of the barometer setting in over our western districts and over the Bay of Biscay and the west of France. Pressure increasing somewhat in Iceland.

Tuesday, 25th May, 1909.

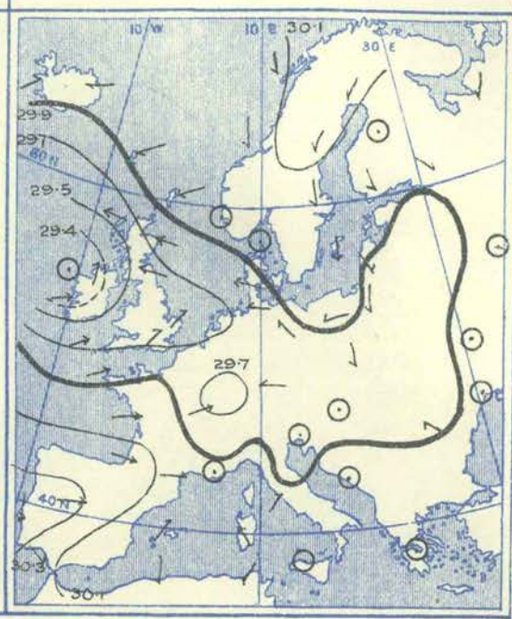
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or dull over these Islands and the nearer parts of France, with rain in several places. Rain also falling at Biarritz and sky overcast in Russia, but fair to fine conditions prevailing generally elsewhere. Continuing fine over all the southern countries later, but rain falling over these Islands and at most stations over the northern half of the Continent. More than an inch at North Shields, Charleville and Frankfort, and more than 0·5 in. in some other localities. Thunderstorms occurring in some parts of this country and at Lyons.

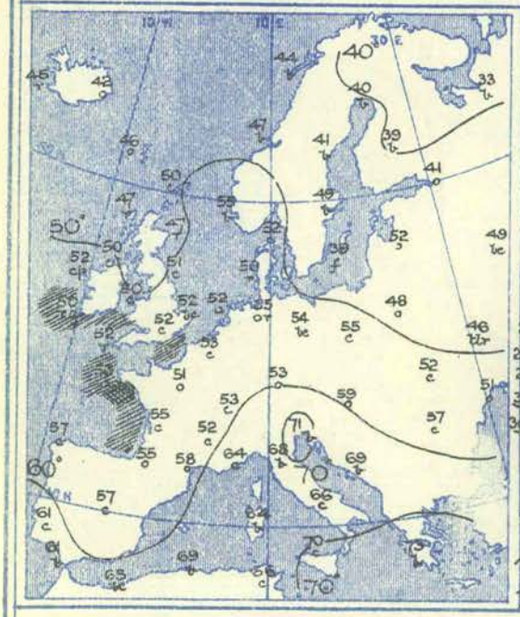
Temperature fallen in most districts. Morning readings about 50° over a large portion of these Islands, below that figure over Russia, Scandinavia and Finland, and as low as 37° at Archangel. Above 70° over a considerable part of the Mediterranean regions, and as high as 82° at Palma. Rising to 86° at Athens and Pesaro during day, to about 80° at many other southern stations and at Frankfort and Carlsruhe, to 78° at Brussels and to 73° at Paris. Maxima below 60° in nearly all parts of these Islands and below 55° at some eastern stations.

Wind in morning cyclonic over the United Kingdom and its vicinity, and also over the eastern half our area. Westerly current blowing a moderate to strong breeze over the Bay of Biscay, and that from South-East moderate to fresh in force on our eastern and northern coasts. Light to moderate in force elsewhere. No important general change during day.

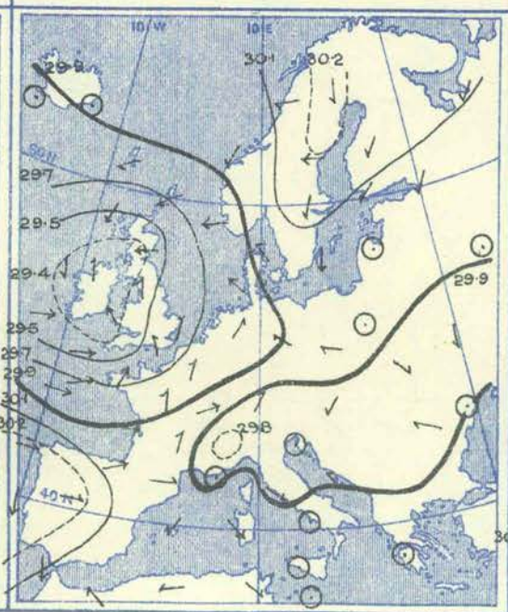
Barometer in morning above 30·3 ins. in Portugal and above 30·1 ins. in central Russia. Relatively high in a broad band extending across Scandinavia and central Europe to the Mediterranean. Below 29·5 ins. in a depression over Ireland and the adjacent part of the Atlantic, and below 29·9 ins. in three separate minima over the north-east and east of our area. Barometer continuing to fall over these Islands during day, and depression growing deeper. A well-marked secondary appearing over Switzerland and some secondary disturbances becoming more marked over England.

Wednesday, 26th May, 1909.

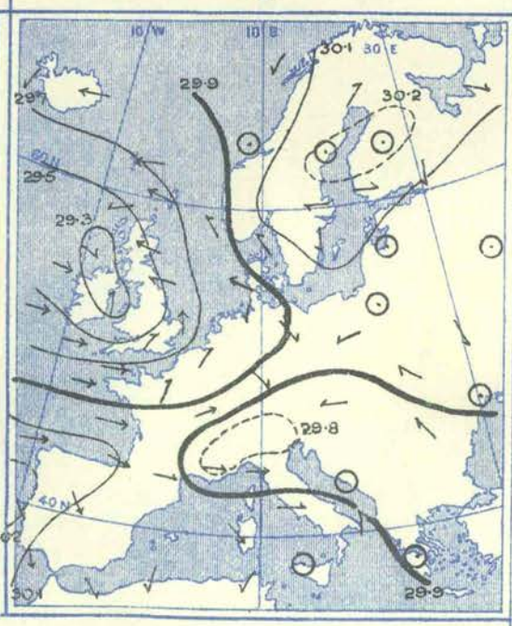
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast or very cloudy, with showers or steady rain, over the United Kingdom and the regions immediately surrounding, but fair or fine over nearly all the other parts of our area. Rain later very generally in these Islands and over a considerable portion of the Continent. Thunderstorms experienced in some English and French localities.

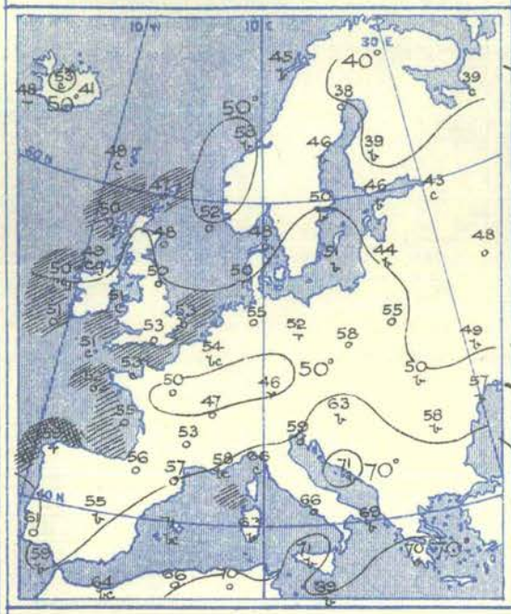
Temperature fallen over the greater portion of our area. Readings in morning ranging from above 70° at several stations on the shores of the Mediterranean to below 50° over a very large area in the more northern countries, and to 33° at Archangel. Maxima during day about 60° in some parts of these Islands and the north of France, above 70° over Hungary and southern Europe, and above 80° in places. Thermometer remaining below 55° at some stations in this country, and below 50° at Castlebay.

Wind in morning showing a cyclonic circulation over these Islands and their neighbourhood, and light variable, or anticyclonic airs in almost all other regions. Westerly to Southerly current fresh to very strong over the Bay of Biscay and the south of England, and Easterly current strong on our extreme northern coasts. Little change later in day; Easterly and Westerly currents increasing to a high wind.

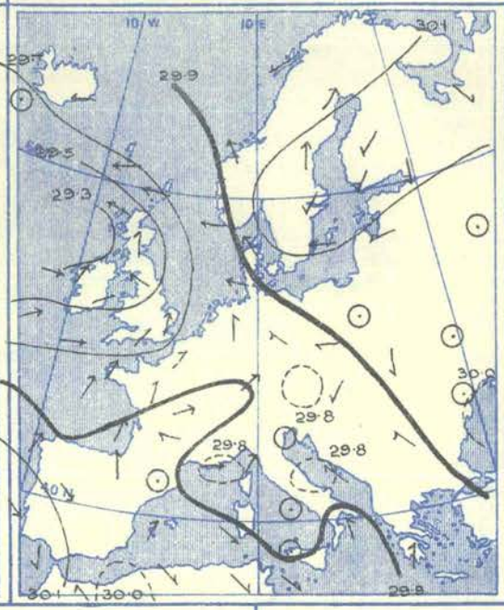
Barometer in morning above 30·2 ins. both in the extreme north and south-west of our area, and below 29·4 ins. in a depression having its minimum over the west and north of these Islands. Gradient rather steep off the south-west and north of this country. Depression undergoing some modification in form during day, and the barometer rising a little in the south-west and north-east of these Islands. A shallow disturbance appearing over the north of Italy.

Thursday, 27th May, 1909.

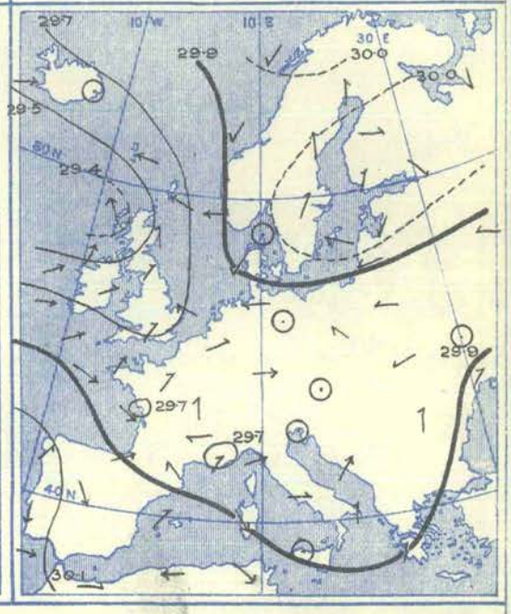
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast in these Islands, Germany, Denmark, and on the west and north coasts of the Spanish Peninsula, with showers or steady rain in places. Some rain also prevailing in northern Italy. Showers or more prolonged falls of rain later in most parts of this country and over the major portion of the Continent later; about 0·5 in. at some German and French stations, as well as at Lesina. Remaining fine in the far south and east of our area.

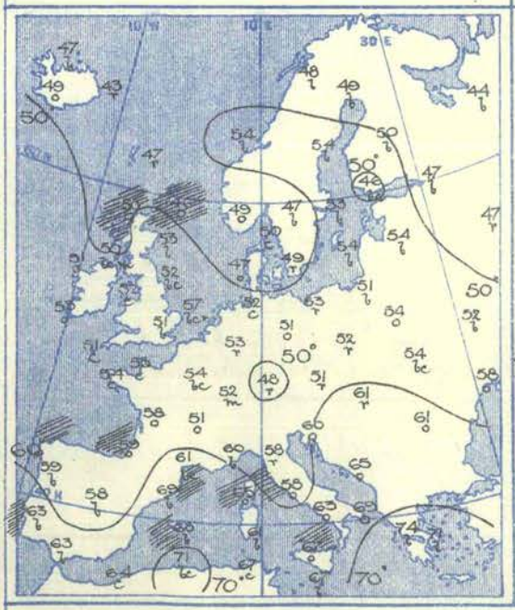
Temperature changed rather irregularly. Readings in morning about 50°, or very little above in these Islands, the greater part of France, and in Germany, but about 70° at many stations in the south of our area. Below 40° in the extreme north of Europe. Maxima during day about 60° at some stations in Great Britain, and not much higher in Germany and Austria, above 75° at a number of places in the south, and above 80° in some localities.

Wind in morning moderate to fresh from the Westward or South-Westward over our southern districts, and fresh or strong from the Eastward on our northern coasts and the south coast of Norway. Some fresh breezes from the North-Westward in the Mediterranean region, but light winds from rather variable points on the Continent generally. Increasing to a high wind from the Eastward later at Sumburgh Head, and to a fresh or strong breeze from the Westward on the west coast of France, but no change of a general character.

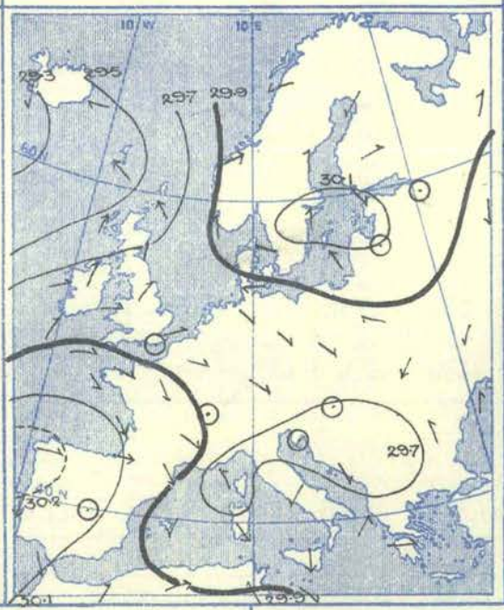
Barometer in morning above 30·1 ins., both in the south-west and north-east of Europe. Below 29·8 ins. in a depression over the Gulf of Genoa, and also in a system over central Europe, and below 29·3 ins. in a large system with its minimum off our north-west coasts. No great modification occurring in the general distribution of pressure during day, but a small subsidiary disturbance appearing in the west of France, and high pressure decreasing somewhat in the north-east of our area.

Friday, 28th May, 1909.

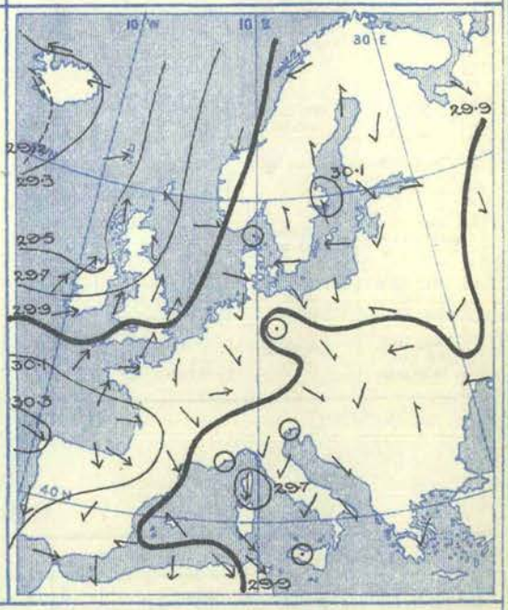
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast and rainy in Germany, and rain also falling at Florence and Moscow, but fair to very fine over our area as a whole. Sky overcast in the west of Ireland. Rain falling later over the whole of the United Kingdom, as well as in the northern and central parts of the Continent—as much as 1·5 in. measured at Breslau.

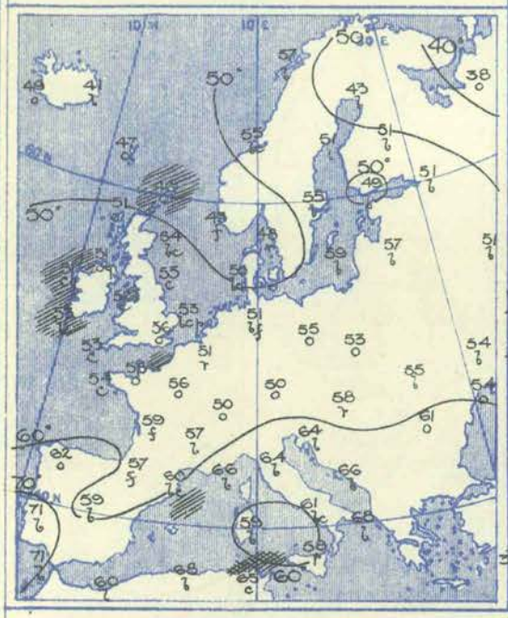
Temperature risen a few degrees in most regions. Morning readings a little above 60° in most parts of these Islands, France, and the central countries, and above 65° at various places in the south of our area; about 70° at Algiers and in Greece. Below 50° in the north and north-east of Europe. Rising during day to between 60° and 65° in most parts of Great Britain, and to 67° at Marnate; exceeding 70° over southern Europe, and reaching 84° at Brindisi.

Wind in morning anticyclonic in the south-west and north-west of Europe, cyclonic elsewhere. Southerly to Westerly current moderate or light over these Islands generally, but strong at Stornoway. A fresh to high wind from South-East prevailing in Shetland and at Thorshavn, and a strong Westerly breeze in the south-west of France. Strong to high winds setting in later in the north of Ireland.

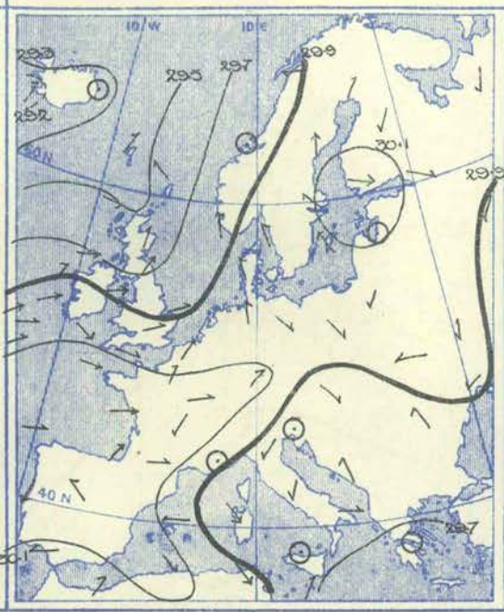
Barometer in morning above 30·2 ins. in the north-west of Spain, and above 30·1 ins. over the upper portion of the Baltic; below 29·8 ins. in an irregularly shaped depression extending from the Gulf of Genoa to Transylvania, and below 29·3 ins. in a large depression far to the north-westward of Scotland. Gradient variable, but mostly slight. A "V-shaped" depression appearing later over our own western districts, and moving eastwards across Great Britain at night.

Saturday, 29th May, 1909.

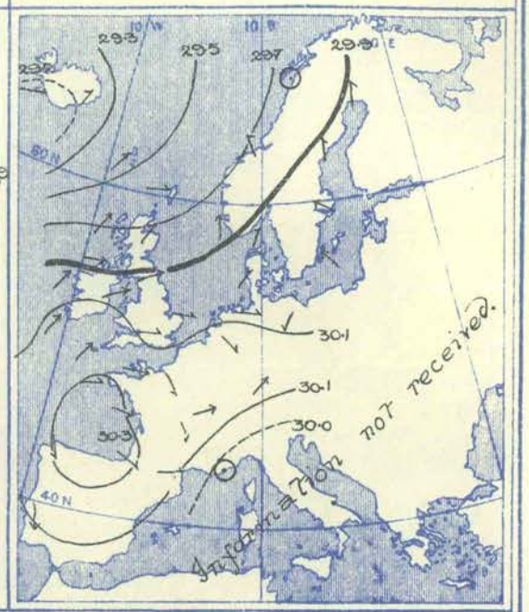
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright over the greater part of our area, but rain falling on both sides of the Straits of Dover, in central France and at some stations in central Europe, as well as at Skagen, Nicolaieff, and Malta. Some rain later in Norway and at Munich, and also at several stations in Scotland and Ireland, but conditions fine generally.

Temperature showing little change. Readings in morning ranging from about 70° at some stations in the extreme south to below 60° generally, to below 50° at various places in northern Europe, and to 38° at Archangel. Thermometer rising to 90° at Lisbon during day, to between 70° and 80° in the south generally, to about 65° in some parts of England and Scandinavia, and to 55° in the far north of Sweden. Maxima below 60° at several of our south-western and northern stations.

Wind in morning moderate and fresh or strong from between South-West and North-West over these Islands and from the Southward on the eastern shores of the North Sea; high from East in the north-west of Iceland. A strong to high wind from the North-Westward prevailing over the western part of the Mediterranean, and a light anticyclonic movement over the north and north-east of the Continent. Little change over the western countries later; backing slightly on the west coast of Ireland.

Barometer in morning above 30·1 ins. over the Peninsula and the major portion of France and also over the Gulf of Finland and its neighbourhood. Below 29·7 ins. over Greece, and below 29·3 ins. in Iceland. Relatively low in a small secondary disturbance over Scotland. Little change of a general character during day; pressure increasing somewhat over these Islands and the adjacent portion of the Continent.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	May 23rd, 12.30 p.m. to 1.30 p.m.	Brighton, 115 m.	Temperature	289°	? °	287°							Half overcast, Alt.-St. Meteorograph attached 450 m. below kite when the latter reached sufficient wind.
			Humidity ..	72%	? %	50%							
			Wind	250°, 3	?	280°, 10	220°, —						
2	May 26th, 10.15 a.m. to 10.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature	284°	283°	281·5°					280°		Clouds at 450 m. Irregular wind.
			Humidity ..	90%	90%	100%					100%	720	
			Wind	135°, 8	135°, 14	155°, 17					170°, 18		
3	May 27th, 9.50 a.m. to 11.50 a.m.	Brighton, 115 m.	Temperature	285°	285°	279°	280°				280°		St.-Cu. not reached. Scud at 600 m.
			Humidity ..	95%	90%	95%	80%				80%	1,300	
			Wind	235°, 5	235°, 11	260°, 12	250°, 12				250°, 12		
4	May 29th, 9.50 a.m. to 11.40 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature	288°	286°	283·5°					281°		Cumulus not reached. Convection currents. Cloud shadows almost stationary.
			Humidity ..	60%	60%	75%					90%	950	
			Wind	270°, 7	270°, 9	280°, 11					290°, 11		
5	May 29th, 10.0 a.m. to 12.10 p.m.	Brighton, 115 m.	Temperature	287·5°	286°	283°	280°				280°		Half overcast. Clouds at 1,000 m. Poor wind above 300 m. Convection currents.
			Humidity ..	90%	80%	80%	80%				80%	1,050	
			Wind	240°, 5	260°, 10	290°, 11	320°, 12				320°, 12		

APPARATUS USED IN THE KITE ASCENTS.

No. of Ascent.	1	2	3	4	5
No. of Kites	1	1	2	2	2
Area of Surface (sq. metres) ..	7	4	9	11	9
Length of Wire (metres)	?	900	2,000	1,350	2,000

63, Victoria Street, London, S.W. *June 2nd, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 22. TWENTY-SECOND WEEK, SUNDAY MAY 30TH TO SATURDAY JUNE 5TH, 1909.

Price 6d.
Annual Subscription post paid £1 10s. 0d.

1.—General Remarks.

Weather was at first fine and bright in the southern and eastern districts, but afterwards became extremely unsettled in all parts of the Kingdom. Heavy and continuous falls of rain were experienced in the south of England between Tuesday and Thursday, and thunderstorms occurred in several parts of our southern and eastern counties. Thunder was also heard on Tuesday at West Linton.

Temperature was below the average, the deficiency being slight in England N.E., Ireland S., and the English Channel, but rather large in England S.E. and S.W. Over England the highest readings were recorded on Sunday and Monday, when the thermometer rose to 70° and upwards in most districts, and to 75° in England E. and S.E. In Ireland and Scotland the absolute maxima occurred more commonly in the latter half of the week, and were nowhere much above 65°. The lowest readings were reported as a rule between Thursday and Saturday, and ranged from 33° in Scotland E. and 34° in England N.E. and Scotland W. to 41° in England E., 42° in England S.E., and 47° in the English Channel. Slight ground frost was experienced at many northern stations, the lowest temperatures recorded by exposed thermometers being 28° at Burnley and 29° at Crathes, Balmoral, Armagh, and Markree Castle.

Mean Temperature of the Sea.—On most parts of our coasts the sea water was colder than in the corresponding week of last year, but off the north of Scotland and on some parts of our south-west coasts it was a trifle warmer. The mean values for the week ranged from about 58° on the south-east coast of England to a little below 48° on our north-east coasts and at Lerwick.

Rainfall was deficient in England N.E., but in excess of the average in all other districts excepting Scotland N., and largely in excess in the eastern and southern parts of England and in the English Channel; in the last-mentioned district the total fall amounted to nearly four times as much as the normal. More than an inch was registered at many southern and eastern stations on Tuesday, and in several parts of Devon, Cornwall, and the Channel Islands on Thursday.

Bright Sunshine was generally deficient. In England E., the Midland Counties and the English Channel the duration amounted to only about one half, and in England S.W. to only one third of the average. The percentage of the possible duration ranged from 35 in Scotland W. and Ireland S. to 18 in the Midland Counties and 15 in England S.W.

Barometer and Wind.—In the early part of the week a large "V-shaped" depression travelled eastwards across the United Kingdom, and light to moderate breezes were experienced from South and South-West, shifting to North-West and North. After Wednesday a well-defined cyclonic system spread northwards from Spain and the Bay of Biscay, and North-Easterly breezes set in over all but our extreme northern districts, an increase to the strength of a high wind being experienced on Thursday in the Channel and on our south-east coasts. Towards the close of the week the southern depression gradually dispersed, and the wind backed to the Northward, and became light or moderate in force generally.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 180.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Deficient	Moderate	Moderate	Moderate	Deficient	Moderate	Deficient	Deficient	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Heavy	Light	Very heavy	Heavy	Very heavy	Heavy	Moderate	Heavy	Moderate	Heavy	Very heavy
	Sunshine ...	Moderate	Scanty	Scanty	Very scanty	Very scanty	Scanty	Moderate	Scanty	Very scanty	Scanty	Moderate	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 13 weeks from Mar. 7th, 1909.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5

PAST SEASONS.

SPRING, 1908. Mar. 1st–May 30th. 13 weeks.	Warmth ...	1 * 5	1 * 6	4 * 4	2 * 3	2 * 3	1 * 4	1 * 3	1 * 2	2 * 5	1 * 4	1 * 4	2 * 6
	Rainfall ...	3 * 3	5 * 2	5 * 4	6 * 3	7 * 4	6 * 2	5 * 3	4 * 5	6 * 3	5 * 2	3 * 3	6 * 3
	Sunshine ...	4 * 4	2 * 4	2 * 6	2 * 6	1 * 6	3 * 4	3 * 4	2 * 1	2 * 3	3 * 3	1 * 4	2 * 7
SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	5 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3

7939 460 Wy. & S. Ltd. 6—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-SECOND WEEK—May 30th to June 5th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	65	37	55·4	44·0	49·3	− 0·9	51	− 9	0	− 2	4	0	0·56	0·00	32	− 7	27	− 6
Eastern																		
1. SCOTLAND, EAST	66	33	57·6	43·8	50·2	− 1·0	57	− 10	0	− 2	4	0	0·72	+0·24	34	− 10	29	− 8
2. ENGLAND, N.E.	72	34	59·2	46·0	52·1	− 0·3	71	− 2	0	0	4	+ 1	0·21	−0·22	33	− 11	29	−10
3. ENGLAND, EAST	75	41	59·2	48·0	53·2	− 1·3	78	− 10	0	0	4	+ 2	1·12	+0·66	25	− 25	22	−22
4. MIDLAND COUNTIES	74	36	60·1	47·2	53·2	− 1·2	78	− 10	0	− 1	4	+ 1	0·75	+0·25	21	− 23	18	−20
5. ENGLAND, S.E.	75	42	60·0	48·3	53·7	− 1·9	82	− 13	0	0	5	+ 3	1·58	+1·12	31	− 18	28	−16
Western																		
6. SCOTLAND, WEST	68	34	59·6	45·4	52·1	− 0·6	71	− 5	0	− 1	4	+ 1	0·90	+0·29	41	− 6	35	− 5
7. ENGLAND, N.W.	66	37	59·0	46·4	52·2	− 1·5	71	− 11	0	0	4	+ 1	0·56	+0·06	35	− 13	30	−11
8. ENGLAND, S.W.	73	40	58·7	47·8	52·8	− 1·9	76	− 13	0	0	5	+ 2	0·98	+0·50	16	− 32	15	−28
9. IRELAND, NORTH	65	36	58·3	46·8	52·2	− 0·8	71	− 6	0	0	4	+ 1	0·58	+0·03	32	− 12	28	−10
10. IRELAND, SOUTH	67	37	61·6	47·6	54·1	− 0·3	85	− 2	0	0	4	+ 1	0·82	+0·23	40	− 7	36	− 6
11. ENGLISH CHANNEL	74	47	59·6	51·1	55·1	− 0·5	92	− 3	0	0	4	+ 1	1·99	+1·49	29	− 28	26	−25

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 13 Weeks, March 7th to June 5th, 1909.

0. SCOTLAND, NORTH	72	20	*	*	*	*	385	− 3	223	+ 1	58	0	7·51	−2·37	400	− 6	31	0
Eastern																		
1. SCOTLAND, EAST	75	7	*	*	*	*	439	− 24	279	+ 37	56	+ 7	9·41	+3·14	421	− 23	33	− 2
2. ENGLAND, N.E.	80	21	*	*	*	*	563	+ 91	185	+ 11	48	+ 4	6·48	+1·39	511	+ 35	40	+ 3
3. ENGLAND, EAST	82	21	*	*	*	*	634	+ 33	149	− 33	45	+ 4	5·82	+0·87	593	+ 98	47	+ 8
4. MIDLAND COUNTIES	82	17	*	*	*	*	677	+ 62	197	0	43	+ 2	5·88	+0·35	542	+ 95	43	+ 8
5. ENGLAND, S.E.	82	13	*	*	*	*	638	− 11	113	− 9	46	+ 7	6·95	+1·79	629	+132	50	+11
Western																		
6. SCOTLAND, WEST	74	19	*	*	*	*	533	+ 30	170	+ 7	48	− 1	9·41	+0·44	491	+ 25	38	+ 2
7. ENGLAND, N.W.	79	19	*	*	*	*	579	+ 49	142	+ 7	46	+ 1	7·23	+0·61	559	+101	44	+ 8
8. ENGLAND, SW.	81	12	*	*	*	*	601	− 13	96	− 6	50	+ 6	8·60	+1·52	557	+ 56	45	+ 5
9. IRELAND, NORTH	72	22	*	*	*	*	556	+ 21	116	− 12	56	+ 3	7·78	+0·35	466	+ 23	37	+ 2
10. IRELAND, SOUTH	76	23	*	*	*	*	657	+ 24	88	− 6	57	+ 9	10·64	+2·67	523	+ 37	42	+ 3
11. ENGLISH CHANNEL	78	30	*	*	*	*	787	+ 87	26	− 4	48	+ 2	7·90	+1·89	649	+ 54	52	+ 4

THE YEAR.—Aggregates, &c., for the Period of 22 Weeks, January 3rd to June 5th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	429	− 19	535	− 20	103	− 1	16·43	−4·41	497	+ 3	28	0
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	478	− 53	673	+ 54	87	+ 3	14·26	+3·00	544	− 24	30	− 1
2. ENGLAND, N.E.	81	14	*	*	*	*	598	+ 46	580	+105	74	− 3	9·35	+0·87	657	+ 56	36	+ 3
3. ENGLAND, EAST	82	12	*	*	*	*	669	− 22	554	+ 33	75	0	8·07	−0·25	764	+129	42	+ 7
4. MIDLAND COUNTIES	82	8	*	*	*	*	720	+ 1	642	+109	68	− 6	8·81	−0·90	686	+119	38	+ 7
5. ENGLAND, S.E.	82	0	*	*	*	*	702	− 65	482	+101	71	0	9·90	+0·29	817	+186	45	+10
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	587	− 5	445	+ 20	83	− 6	17·50	−0·32	605	+ 32	33	+ 2
7. ENGLAND, N.W.	79	10	*	*	*	*	637	+ 13	466	+ 80	77	− 4	11·93	−0·36	720	+149	40	+ 8
8. ENGLAND, S.W.	81	7	*	*	*	*	685	− 80	390	+ 89	78	− 2	12·51	−1·57	746	+109	41	+ 6
9 IRELAND, NORTH	72	14	*	*	*	*	674	+ 14	315	− 30	99	+ 4	14·03	+0·07	575	+ 14	32	+ 1
10. IRELAND, SOUTH	76	15	*	*	*	*	825	+ 6	265	+ 6	94	+ 8	15·49	−0·03	660	+ 38	36	+ 2
11. ENGLISH CHANNEL	78	25	*	*	*	*	962	+ 43	151	+ 42	78	− 9	12·06	+0·14	864	+100	48	+ 6

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				Names of Stations.
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N.	*p Balta Sound* S	*55*	*3rd*	*39*	*3rd, 5th*	*53·3*	*42·0*	*46·7*	—	*33*	*0*	*4*	*0·19*	—	*34·6*	—	*34*	—	*Balta Sound.*
a, Islands.	a Sumburgh Head ..	54	1st	38	5th	51·9	42·4	46·8	+ 0·1	34	0	4	0·16	- 0·33	36·1	- 2·6	29	- 2	Deerness.
a, Islands.	a Stornoway	55	30, 31, 2, 4, 5	42	5th	54·7	45·6	49·8	+ 0·8	55	0	4	0·16	- 0·39	35·6	- 7·9	29	- 7	Stornoway.
a, Islands.	*a Castlebay, Barra Isd.*	*55*	*1, 4, 5th*	*45*	*5th*	*54·3*	*46·7*	*50·2*	- *2·3*	*57*	*0*	*3*	*0·08*	—	*45·3*	—	*38*	—	*Castlebay.*
a, Islands.	a Wick	60	30th	42	5th	55·4	44·7	49·7	+ 0·6	54	0	7	0·41	- 0·01	*	*	*	*	*
b, Mainland.	p Strathpeffer.. ..	59	2nd, 3rd	43	30, 31, 1, 5	56·1	43·8	49·5	- 1·0	53	0	4	1·15	+ 0·72	28·2	- 10·2	24	- 9	Strathpeffer.
b, Mainland.	p Glencarron ..	58	4th	41	1st	54·2	43·1	48·3	- 1·2	44	0	? 4	0·69	- 0·29	*	*	*	*	*
b, Mainland.	p Fort Augustus	60	4th	37	3rd	56·2	43·8	49·6	- 0·9	53	0	3	0·63	+ 0·15	28·6	- 2·6	24	- 2	Fort Augustus.
b, Mainland.	p Fort William	65	4th	38	3rd	59·5	44·3	51·4	- 0·2	66	0	5	0·75	- 0·07	*	*	*	*	*
1. SCOTLAND, E.	p Gordon Castle S	61	30th, 3rd	39	5th	57·2	42·5	49·3	- 1·7	51	0	6	1·12	+ 0·65	*32·5*	—	*27*	—	*Gordon Castle.*
1. SCOTLAND, E.	a Nairn	60	30th, 3rd	41	3rd, 5th	56·1	43·4	49·3	- 1·9	51	0	5	0·67	+ 0·27	36·1	—	30	—	Nairn.
1. SCOTLAND, E.	a Aberdeen	66	30th	42	3rd	58·0	45·4	51·3	+ 1·0	65	0	4	0·77	+ 0·32	32·8	- 10·5	28	- 9	Aberdeen.
1. SCOTLAND, E.	a Balmoral ..	62	5th	33	3rd	56·3	41·6	48·4	- 0·3	46	1	1	0·80	+ 0·25	19·6	—	17	—	Crathes S.
1. SCOTLAND, E.	p Crieff	64	3rd	40	3rd, 5th	59·9	43·9	51·3	- 1·3	65	0	5	1·38	+ 0·78	36·1	—	31	—	Balruddery
1. SCOTLAND, E.	a Leith	63	31st	44	5th	59·1	47·1	52·7	+ 0·4	75	0	6	0·42	+ 0·01	40·4	+ 3·9	34	+ 3	Edinburgh.
1. SCOTLAND, E.	a West Linton.. S	60	3rd	37	2nd	55·9	43·1	49·1	- 0·2	50	0	4	0·38	—	*33·3*	—	*29*	—	*West Linton.*
1. SCOTLAND, E.	p Marchmont .. S	63	30th	39	2nd, 5th	58·1	43·7	50·4	+ 0·4	59	0	3	0·19	- 0·35	38·3	- 3·0	33	- 3	Marchmont.
2. ENGLAND, N.E.	a Alnwick Castle ..	65	30th	39	3rd	57·2	45·1	50·7	+ 0·2	61	0	3	0·12	- 0·35	34·9	—	30	—	Cockle Park.
2. ENGLAND, N.E.	a Shields	66	30th	40	3rd	57·6	45·0	50·9	0·0	62	0	5	0·23	- 0·17	*33·2*	*0·0*	*29*	*0*	*Newcastle.*
2. ENGLAND, N.E.	p Durham	64	30th	34	3rd, 4th	57·7	42·7	49·7	- 1·6	54	0	4	0·10	- 0·32	30·6	- 8·8	26	- 8	Durham.
2. ENGLAND, N.E. a, North.	p Rounton .. M	65	30th	34	4th	57·4	43·3	49·9	- 0·5	55	0	3	0·32	- 0·13	*	*	*	*	*
2. ENGLAND, N.E. a, North.	p Scarborough.. M	69	30th, 31st	45	3rd, 4th	61·1	48·1	54·2	+ 2·4	85	0	3	0·08	- 0·35	42·5	—	37	—	Scarborough.
2. ENGLAND, N.E. a, North.	p York	66	30th	38	3rd, 4th	61·3	45·4	52·8	- 0·8	76	0	5	0·16	- 0·30	28·9	- 11·7	25	- 10	York.
2. ENGLAND, N.E. b, South.	a Spurn Head	69	31st	40	2nd	58·7	48·3	53·1	+ 0·8	78	0	2	0·20	- 0·14	*	*	*	*	*
2. ENGLAND, N.E. b, South.	a Lincoln	72	31st	42	3, 4, 5th	60·9	47·2	53·6	- 0·9	81	0	3	0·25	- 0·18	32·2	—	28	—	Skegness.
2. ENGLAND, N.E. b, South.	a Fulbeck	72	31st	39	3rd	60·6	48·5	54·1	+ 0·6	85	0	4	0·44	0·00	28·8	—	25	—	Rauceby.
															31·6	—	*28*	—	*Lowcestoft.*
3. ENGLAND, E.	p Cromer	74	31st	44	5th	57·7	47·7	52·4	- 0·1	73	0	3	0·72	—	13·5	—	12	—	Cromer.
3. ENGLAND, E. a, North.	p Hillington .. M	75	31st	41	3rd	59·3	45·5	51·9	- 1·5	69	0	4	0·93	+ 0·48	13·8	- 32·9	12	- 29	Hillington.
3. ENGLAND, E. a, North.	a Yarmouth	67	30th	47	3, 4, 5th	57·1	49·1	52·8	+ 0·2	76	0	3	1·03	+ 0·64	30·2	—	27	—	Yarmouth.
3. ENGLAND, E. a, North.	a Norwich	74	31st	45	5th	59·8	48·8	53·9	+ 0·9	83	0	4	1·04	—	*	*	*	*	*
3. ENGLAND, E. a, North.	p Geldeston	74	31st	45	5th	60·4	47·8	53·7	+ 0·7	82	0	5	0·91	+ 0·50	27·5	- 22·5	24	- 20	Geldeston.
3. ENGLAND, E.	p Cambridge	74	31st	45	5th	60·0	47·8	53·5	- 0·7	81	0	5	1·39	+ 0·93	24·0	- 22·9	21	- 20	Cambridge.
3. ENGLAND, E.	*a Felixstowe* ..	*76*	*3rd*	*47*	*4th, 5th*	*64·0*	*49·4*	*56·2*	+ *2·6*	*99*	*0*	*5*	*1·03*	—	*33·9*	—	*30*	—	*Felixstowe.*
3. ENGLAND, E. b, South.	a Clacton-on-Sea ..	69	1st	47	30th, 5th	59·3	50·0	54·3	+ 1·1	86	0	5	0·96	—	34·9	—	31	—	Clacton.
3. ENGLAND, E. b, South.	a Rothamsted ..	71	31st	43	30th	59·1	46·4	52·3	- 1·0	72	0	6	2·02	+ 1·57	24·4	- 21·4	22	- 19	Rothamsted.
3. ENGLAND, E. b, South.	*a Shoeburyness* ..	*72*	*31st*	*48*	*30, 3, 4, 5*	*61·4*	*49·4*	*55·0*	- *0·7*	*91*	*0*	*5*	*1·15*	+ *0·85*	*36·6*	—	*33*	—	*Southend.*
3. ENGLAND, E.	p Tottenham	73	31st	45	4th	60·3	49·2	54·4	- 0·2	87	0	5	1·11	—	28·4	—	25	—	Tottenham.
4. MIDLAND COUNTIES.	a Harrogate	65	30th	36	4th	58·6	44·5	51·1	- 0·3	64	0	4	0·24	- 0·26	37·5	—	33	—	Harrogate.
4. MIDLAND COUNTIES.	a Bawtry	70	31st	36	2nd	62·4	45·6	53·4	- 0·4	80	0	3	0·20	- 0·22	25·8	- 12·8	23	- 11	Worksop.
4. MIDLAND COUNTIES.	*p Buxton* .. M	*65*	*31st*	*36*	*3rd*	*56·6*	*44·4*	*50·1*	+ *0·2*	*57*	*0*	*3*	*0·26*	- *0·46*	*18·4*	—	*16*	—	*Buxton.*
4. MIDLAND COUNTIES. a, East.	a Nottingham ..	71	31st	43	3rd	60·9	49·0	54·5	+ 0·7	88	0	3	0·36	- 0·07	26·8	—	24	—	Nottingham.
4. MIDLAND COUNTIES. a, East.	p Birmingham, Edgbsn	70	31st	43	3rd	60·6	48·1	53·9	+ 0·5	83	0	3	0·57	+ 0·07	12·8	—	11	—	Birmingham.
4. MIDLAND COUNTIES. a, East.	a Raunds .. M	74	31st	44	3rd, 5th	60·0	48·1	53·6	0·0	81	0	5	1·02	—	*	*	*	*	*
4. MIDLAND COUNTIES. a, East.	a Oxford	72	31st	45	4th	59·3	48·7	53·6	- 0·8	81	0	6	1·54	+ 1·11	17·0	- 28·4	15	- 25	Oxford.
4. MIDLAND COUNTIES. a, East.	a Cheadle .. M	68	31st	40	3rd	58·1	45·4	51·3	- 0·6	65	0	4	0·78	+ 0·26	20·6	—	18	—	Sheffield.
4. MIDLAND COUNTIES. b, West.	p Shrewsbury	69	30th, 31st	40	4th	61·7	47·3	54·0	- 0·2	84	0	2	0·52	—	*	*	*	*	*
4. MIDLAND COUNTIES. b, West.	a Hereford .. M	72	31st	42	5th	61·4	47·2	53·8	- 0·6	83	0	3	0·07	- 0·41	*	*	*	*	*
4. MIDLAND COUNTIES. b, West.	a Cirencester	71	31st	41	5th	58·5	47·0	52·4	- 0·8	73	0	4	1·90	+ 1·40	10·3	- 37·0	9	- 33	Cirencester.
4. MIDLAND COUNTIES. b, West.	a Bath	71	31st	44	4th	59·6	48·7	53·8	- 0·7	83	0	6	1·09	+ 0·61	14·5	—	13	—	Bath.
															41·6	—	*37*	—	*Ramsgate.*
5. ENGLAND, S.E.	p Kew	74	31st	46	4th	60·2	48·9	54·2	- 0·9	85	0	5	1·17	+ 0·74	24·2	- 22·2	22	- 20	Kew.
5. ENGLAND, S.E.	a Marlborough ..	71	31st	42	30th, 5th	?58·3	46·0	?51·7	- 1·0	68	0	6	1·29	+ 0·82	13·0	- 30·0	12	- 27	Marlborough.
5. ENGLAND, S.E.	a Margate	72	31st	48	3rd	61·5	50·0	55·4	+ 1·3	94	0	4	0·97	+ 0·60	38·8	- 6·2	35	- 6	Margate.
5. ENGLAND, S.E.	a Wisley, Surrey ..	72	31st	45	4th, 5th	59·7	47·0	52·9	- 2·4	76	0	5	1·12	—	25·3	—	23	—	Wisley.
5. ENGLAND, S.E.	a Swarraton .. M	71	31st	42	30th	57·9	46·8	52·0	- 1·2	70	0	6	2·95	+ 2·48	34·1	—	31	—	Worthing.
5. ENGLAND, S.E.	a Tunbridge Wells M	73	31st	44	30th	60·6	47·2	53·4	- 0·5	80	0	5	1·26	+ 0·80	34·7	- 12·8	31	- 11	Tunbridge Wells.
5. ENGLAND, S.E.	a Dungeness	68	31st	45	30th	60·3	49·4	54·5	+ 0·6	88	0	4	1·13	+ 0·83	42·9	—	38	—	Littlestone.
5. ENGLAND, S.E.	p Hastings	75	1st	47	30th, 3rd	62·1	49·6	55·4	+ 1·0	94	0	4	1·28	+ 0·91	*42·4*	- *12·0*	*38*	—	*Hastings.*
5. ENGLAND, S.E.	p Southampton ..	69	31st	45	30th, 4th	59·5	48·6	53·7	- 2·5	82	0	6	2·71	+ 2·27	25·1	- 25·4	22	- 23	Southampton.
5. ENGLAND, S.E.	a Ventnor	65	31st	47	4th, 5th	59·3	49·0	53·8	- 1·3	83	0	5	1·90	+ 1·50	29·9	- 20·5	27	- 19	Ventnor.
															41·4	- 10·3	37	- 9	Eastbourne.
LONDON	*a Westminster* ..	*73*	*31st*	*46*	*4th, 5th*	*61·4*	*49·4*	*55·0*	- *0·3*	*91*	*0*	*5*	*1·02*	+ *0·61*	*27·9*	- *11·1*	*25*	- *10*	*Westminster.*
LONDON	*a Greenwich* ..	*76*	*31st*	*45*	*4th, 5th*	*62·1*	*47·3*	*54·2*	- *1·4*	*85*	*0*	*5*	*1·04*	+ *0·61*	*31·2*	- *12·7*	*28*	- *11*	*Greenwich.*
6. a, SCOTLAND. W.	p Laudale	61	1st	43	3rd	58·9	46·1	52·1	- 0·1	71	0	4	0·71	- 0·15	*	*	*	*	*
6. a, SCOTLAND. W.	a Poltalloch .. S	65	5th	34	3rd	60·4	42·1	50·6	- 1·8	60	0	3	0·80	+ 0·16	*	*	*	*	*
6. a, SCOTLAND. W.	p Glasgow	65	3rd	43	5th	58·8	47·3	52·7	+ 0·5	75	0	4	1·05	+ 0·48	26·3	- 11·5	22	- 10	Glasgow.
6. a, SCOTLAND. W.	p Rothesay .. S	68	4th	40	3rd	61·6	46·6	53·6	+ 1·2	81	0	5	1·37	+ 0·71	*	*	*	*	*
6. a, SCOTLAND. W.	a Kilmarnock ..													—				—	*Kilmarnock.*
6. a, SCOTLAND. W.	a Colmonell ..	65	4th	36	3rd	60·9	45·1	52·5	- 0·1	74	0	4	0·62	+ 0·05	*	*	*	*	*
6. a, SCOTLAND. W.	p Dumfries	65	4th	41	3rd	59·4	45·9	52·2	- 1·1	71	0	4	0·82	+ 0·26	*	*	*	*	*
6. a, SCOTLAND. W.	p Cally, Gatehouse	67	4th	39	2nd, 3rd	60·7	43·8	51·7	- 0·6	68	0	6	1·16	+ 0·47	*	*	*	*	*
6. b, ISLE OF MAN	p Douglas	64	4th	44	3rd	56·0	46·6	51·0	- 0·9	63	0	3	0·66	+ 0·08	254·8	+ 3·4	48	+ 3	Douglas.
																—		—	Hoylake.
7. a, ENGLAND, N.W.	p Aspatria	64	4th	38	2nd	59·9	45·3	52·1	+ 0·3	71	0	3	0·49	- 0·06	44·8	—	39	—	Aspatria.
7. a, ENGLAND, N.W.	p Newton Rigg ..	64	3rd	39	2nd, 3rd	60·3	44·1	51·6	+ 0·2	67	0	4	0·31	- 0·23	29·1	- 17·4	25	- 15	Newton Rigg.
7. a, ENGLAND, N.W.	p Stonyhurst	60	1, 3, 4th	40	3rd, 4th	57·2	45·2	50·8	- 1·9	62	0	4	0·89	+ 0·26	36·2	- 8·6	32	- 8	Stonyhurst.
7. a, ENGLAND, N.W.	p Blackpool .. M	63	4th	37	3rd	58·2	45·1	51·2	- 1·9	64	0	4	0·72	+ 0·23	45·6	- 0·5	40	0	Blackpool.
7. a, ENGLAND, N.W.	p M'nch'ster,Prestwich	64	30th	39	3rd	59·1	45·9	52·0	- 0·7	70	0	4	0·56	- 0·03	*25·6*	- *13·7*	*23*	- *12*	*Prestwich.*
7. a, ENGLAND, N.W.	a Liverpool (Bidston)	62	30th, 4th	42	4th	58·6	47·7	52·8	- 0·5	76	0	4	0·60	+ 0·14	*34·4*	—	*30*	—	*Liverpool.*
7. a, ENGLAND, N.W.	a Hawarden Bridge ..	66	30th	39	3rd	59·8	47·3	53·1	- 1·3	78	0	4	0·51	+ 0·08	*41·8*	- *7·6*	*36*	- *7*	*Southport.*
															35·2	—	*31*	—	*Rhyl.*
7. b, NORTH WALES	p Llandudno .. M	65	30th	44	3rd	58·7	48·6	53·3	- 0·3	79	0	4	0·62	+ 0·19	42·5	- 4·8	37	- 4	Llandudno.
7. b, NORTH WALES	a Holyhead	60	30th	46	4th, 5th	57·1	48·0	52·2	- 0·5	71	0	2	0·46	+ 0·01	23·0	—	20	—	Aberdovey.
7. b, NORTH WALES	p Bettws-y-Coed ..	65	31st, 1st	38	3rd	60·7	46·9	53·3	+ 0·4	79	0	4	0·44	—	22·0	—	19	—	Bettws-y-Coed.
															16·7	—	15	—	Aberystwyth.
8. a, SOUTH WALES	a Llangammarch Wells	67	31st	42	4th	59·8	47·2	53·1	+ 1·1	78	0	4	0·19	—	14·1	. —	13	—	Llangammarch Wells.
8. a, SOUTH WALES	a Pembroke	61	2nd	45	3rd	57·0	47·4	51·9	- 0·8	69	0	4	0·11	- 0·32	21·8	- 29·5	19	- 26	Pembroke.
8. a, SOUTH WALES	a Cardiff	70	31st	43	5th	59·2	47·5	52·9	- 2·2	76	0	5	0·14	- 0·41	*13·0*	—	*11*	—	*Cardiff.*
															13·6	- *38·4*	*12*	- *34*	*Tenby.*
8. b, ENGLAND, S.W.	a Clifton	73	31st	44	5th	59·7	49·2	54·1	- 1·1	85	0	5	0·81	+ 0·31	*11·1*	—	*10*	—	*Clifton.*
8. b, ENGLAND, S.W.	a Shaftesbury .. M	68	31st	41	4th, 5th	57·3	45·1	50·8	- 1·3	62	0	6	1·77	+ 1·27	*	*	*	*	*
8. b, ENGLAND, S.W.	a Arlington	68	31st	40	5th	58·3	45·0	51·2	- 1·2	64	0	6	0·72	+ 0·07	14·5	- 36·9	13	- 33	Newquay.
8. b, ENGLAND, S.W.	a Cullompton .. M	71	31st	41	5th	60·3	47·8	53·6	- 0·8	81	0	5	0·80	+ 0·30	13·4	- 33·6	12	- 30	Cullompton.
8. b, ENGLAND, S.W.	a Portland Bill ..	63	1st	45	4th, 5th	56·9	49·1	52·7	- 1·3	75	0	6	2·31	—	*16·2*	—	*15*	—	*Weymouth.*
8. b, ENGLAND, S.W.	p Plymouth	69	31st	46	4th	59·2	50·1	54·3	- 1·0	86	0	5	1·65	+ 1·18	15·7	- 35·5	14	- 32	Plymouth.
8. b, ENGLAND, S.W.	p Falmouth	66	31st	45	4th	58·8	49·5	53·8	- 0·3	83	0	5	1·33	+ 0·81	18·4	- 36·2	17	- 33	Falmouth.
															14·8	- *37·8*	*13*	- *34*	*Torquay.*
9. IRELAND, N. a, West.	a Malin Head	57	30th	47	31, 1, 2nd	55·1	47·7	51·1	- 0·2	64	0	3	0·44	- 0·03	*	*	*	*	*
9. IRELAND, N. a, West.	a Blacksod Point ..	58	30th	47	1st, 3rd	56·0	49·0	52·3	- 0·4	72	0	5	0·51	- 0·09	*	*	*	*	*
9. IRELAND, N. a, West.	p Markree Castle ..	64	4th	36	3rd	59·3	46·9	52·7	+ 0·8	75	0	3	0·41	- 0·21	35·4	- 6·2	31	- 5	Markree Castle.
9. IRELAND, N. a, West.	a Birr Castle	65	4th	37	3rd	61·9	45·4	53·1	0·0	78	0	4	1·14	+ 0·63	*35·1*	- *5·9*	*31*	- *5*	*Birr Castle.*
9. IRELAND, N. b, East.	p Armagh	63	4th	37	3rd	60·2	44·6	51·9	0·0	69	0	3	0·61	+ 0·04	28·8	- 12·6	25	- 11	Armagh.
9. IRELAND, N. b, East.	a Donaghadee	65	30th	43	1st	57·3	47·0	51·8	- 0·3	69	0	3	0·39	- 0·13	*	*	*	*	*
10. IRELAND, S. a, East.	p Dublin, City.. ..	67	30th	44	3rd	62·0	48·9	55·0	+ 0·5	91	0	3	0·36	- 0·09	40·3	- 6·9	35	- 6	Phœnix Park.
10. IRELAND, S. a, East.	a Kilkenny	64	4th	42	2nd, 3rd	62·4	45·6	53·4	+ 0·2	80	0	5	1·25	+ 0·75	*	*	*	*	*
10. IRELAND, S. a, East.	a Waterford	65	4th	44	31, 1, 2nd	62·0	47·9	54·5	+ 0·4	88	0	4	1·34	+ 0·77	*	*	*	*	*
10. IRELAND, S. b, West.	a Birr Castle	65	4th	37	3rd	61·9	45·4	53·1	0·0	78	0	4	1·14	+ 0·63	35·1	- 5·9	31	- 5	Birr Castle.
10. IRELAND, S. b, West.	a Foynes	66	4th	44	3rd	61·4	49·0	54·8	+ 0·8	90	0	4	0·48	- 0·05	*	*	*	*	*
10. IRELAND, S. b, West.	a Cahir .. .. M	66	3rd	41	1st	62·8	46·9	54·3	+ 0·6	86	0	6	1·21	—	*	*	*	*	*
10. IRELAND, S. b, West.	a Killarney	66	4th	41	3rd	63·2	46·3	54·2	+ 0·6	85	0	5	0·27	- 0·40	*	*	*	*	*
10. IRELAND, S. b, West.	a Valencia	59	30, 2, 3rd	45	3rd	57·6	49·6	53·3	- 0·5	79	0	4	0·75	+ 0·03	42·4	- 4·2	38	- 4	Valencia.
10. IRELAND, S. b, West.	a Roche's Point ..	66	4th	45	3rd	60·9	48·7	54·4	+ 0·5	87	0	4	0·55	- 0·04	42·5	—	38	—	Ballinacurra.
11. ENGLISH CHANNEL	a Scilly, St. Mary's ..	61	31st	47	4th	57·4	50·3	53·6	- 1·9	81	0	2	0·51	+ 0·13	25·9	- 29·3	23	- 26	Scilly.
11. ENGLISH CHANNEL	a Jersey, St. Aubins ..	73	31st	50	3rd, 4th	61·7	51·9	56·5	+ 0·8	102	0	5	2·42	+ 1·95	30·2	- 26·5	28	- 24	St. Heliers.
11. ENGLISH CHANNEL	a Guernsey	74	31st	49	3rd	59·7	51·0	55·1	- 0·1	92	0	5	3·04	+ 2·58	30·2	- 28·8	28	- 26	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 35·8 hrs. (- 15·6 hrs.) 38 % (- 14 %); Bournemouth, 23·8 hrs., 21 % ;* Bognor, hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	49·0	—
	— —				
	— —				
1.	Aberdeen	—	—	—	47·8
	Crathes	1	29	51·8	48·1
	Balmoral	1	29	—	—
	West Linton	0	31	—	—
	Marchmont	0	32	53·7	—
2.	Cockle Park	0	35	52·6	49·4
	Durham	0	33	—	—
	York	—	—	53·6	50·1
	Hull	0	38	56·1	49·1
	Lincoln	—	—	56·1	50·1
	Rauceby	0	40	57·9	51·8
3.	Norwich	0	42	—	—
	Yarmouth	—	—	58·6	54·4
	Lowestoft	0	44	56·7	52·8
	Cambridge	0	38	56·8	53·3
	Clacton-on-Sea	0	40	56·6	54·3
	Southend	0	44	58·6	—
	Tottenham	0	43	—	53·4
4.	Harrogate	1	28	51·5	49·6
	Huddersfield	0	31	54·3	48·1
	Buxton	0	33	53·3	48·1
	Sheffield	0	35	53·8	49·2
	Nottingham	0	39	55·5	51·5
	Birmingham	0	39	51·1	48·4
	Oxford	0	—	—	—
	Hereford	0	32	—	—
	Cirencester	0	36	—	—
5.	Margate	0	46	56·6	53·5
	Greenwich	0	37	—	—
	Westminster	0	41	—	—
	Kew	0	40	56·2	52·1
	Canterbury	0	41	57·0	54·2
	Tunbridge Wells	0	39	58·1	—
	Wisley	0	38	56·3	53·8
	Worthing	0	40	57·5	53·5
	Portsmouth	0	38	57·8	55·4
6.	Glasgow	0	36	—	—
	Rothesay	—	—	—	50·1
	Colmonel	0	33	—	—
	Dumfries	—	—	—	—
	Douglas	0	34	—	—
7.	Aspatria	0	34	—	—
	Newton Rigg	0	36	54·2	49·3
	Burnley	2	28	53·2	48·1
	Southport	0	33	58·6	54·1
	Manchester City	0	34	54·5	51·1
	Bettws-y-Coed	0	36	52·4	49·4
8.	Llangammarch Wells	0	32	53·6	49·7
	Cardiff	0	31	55·8	52·5
	Clifton	0	40	—	—
	Bath				
	Plymouth	0	41	56·7	—
9.	Armagh	0	29	55·4	52·0
	Markree	1	29	—	—
10.	Dublin, Trin. Coll.	0	37	55·9	52·4
11.	Guernsey, Brooklyn	0	42	57·6	55·2

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	48	47	47·7
	Kirkwall	53	51	52·0
	Wick	54	53	53·4
SCOTLAND, E.	Cromarty	50	47	48·6
	Pennan Bay	52	50	51·0
	Aberdeen, Cove Bay	49	47	48·5
ENGLAND, N.E.	Burnmouth, Berwick	49	47	47·9
	Scarborough	49	47	47·7
ENGLAND, E.	Shipwash Lightship	56	52	53·8
	Margate‡	60	57	58·3
ENGLAND, S.E.	Eastbourne‡	59	55	57·6
SCOTLAND, W.	Lamlash	52	49	50·4
	Ballantrae	52	50	51·3
ENGLAND, N.W.	Port Erin	54	50	51·8
ENGLAND, S.W.	Newquay	57	55	56·2
	Plymouth‡	55	53	53·7
	Salcombe	56	51	53·1
IRELAND, N.W.	Sheephaven	57	53	53·4
	Teelin	56	54	55·0
IRELAND, S.W.	Cleggan	58	53	54·9
	Seafield	58	53	55·4
IRELAND, E.				

‡ Only one observation each day.

VII.—*Continued* from p. 184.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1909.										Metres.	
13	June 3rd, 12.17 p.m. to 4.17 p.m.	Howard Estate, Glossop, 335 m.	Temperature	284°	282°	281°	275°	273°	272°		272°	Overcast. Moderate breeze. Clouds A.-Cu. and N. 10.
			Humidity	64%	65%	67%	78%	87%	38%		38%	
			Wind	56°, 6	58°, 7	58°, 8	59°, 12	59°, 13	59°, 17		59°, 17	2,000
14	June 4th, 12.35 p.m. to 1.53 p.m.	Howard Estate, Glossop, 335 m.	Temperature	285°	282°	281°	273°				270°	Weather fair. Fresh breeze. Clouds, N. and A.-Cu. 8; kite entered N. at 1,200 m.
			Humidity	74%	79%	82%	93%				95%	
			Wind	45°, 9	55°, 11	62°, 13	66°, 15				65°, 16	1,260
15	June 5th, 9.10 a.m. to 10.20 a.m.	Howard Estate, Glossop, 335 m.	Temperature	280°	278°	276°					276°	Continuous rain during flight. Wind light. N. 10 at 500 m.
			Humidity	93%	97%	97%					97%	
			Wind	56°, 4	62°, 8	65°, 9					65°, 9	500

NOTE.—The results of a kite ascent of long duration made at **Aldershot** on June 3rd will be given in the next issue of the Weekly Weather Report.

APPARATUS USED IN THE KITE ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
No. of Kites	1	1	1	1	1	1	2	1	1	1	1	1	2	1	1
Area of Surface (sq. metres)	5	11·5	7·5	3·1	7.5	5·5	15	7·5	7·5	7	4	7	15	5·5	7·5
Length of Wire (metres)	1,060	1,500	450	1,600	600	900	2,100	760	1,300	1,200	1,500	1,000	2,200	1,600	300

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

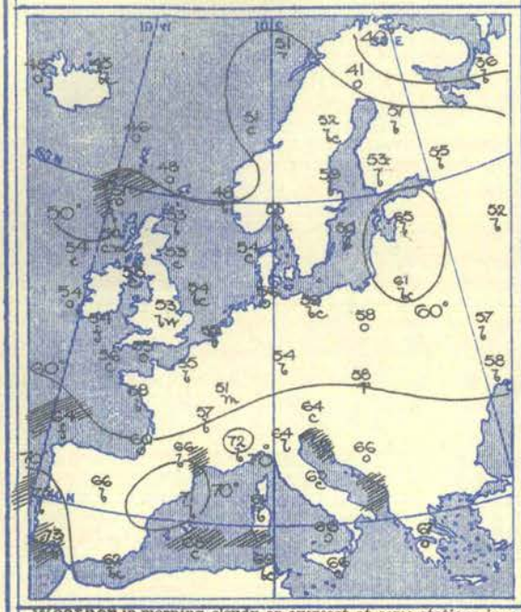
The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

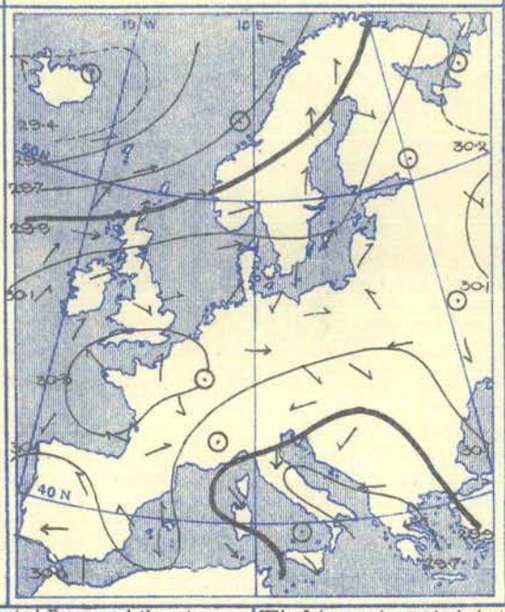
Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Sunday, 30th May, 1909.

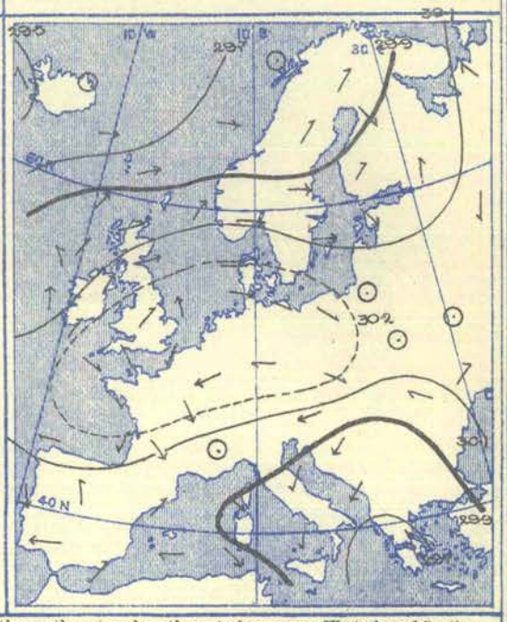
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast at some stations in central Europe and the extreme west of these Islands, and rainy at Bodö and Buda-Pesth. Fair to very fine and bright generally. Rain falling later in the west and north of these Islands, as well as at some places on the shores of the Mediterranean and Adriatic, and in Norway and Finland.

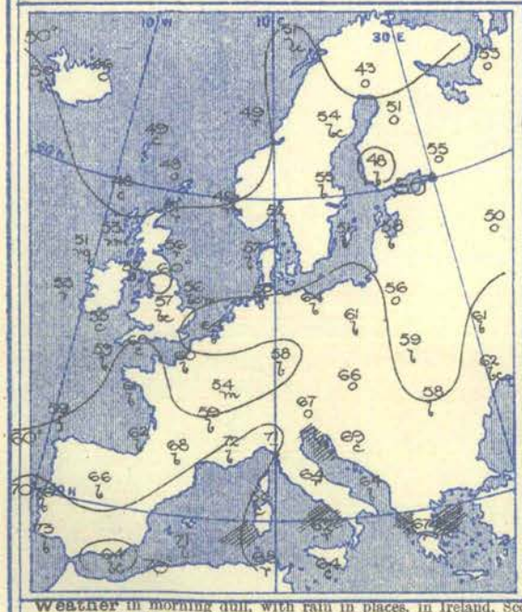
Temperature changed little. Readings in morning below 40° in the far north of Russia, about 55° over a large part of England, rather higher over the central countries and the south of Russia, and between 60° and 70° or rather more over the south of Europe. Rising later to 70° at a few stations in the south-east of England and in some German and Austrian localities, to a higher figure over France, the Spanish Peninsula, Algeria, and Italy, and touching 91° at Lisbon. Maximum only 61° at Vienna, and below 60° on the western and north-western coasts of these Islands.

Wind in morning cyclonic in the south-east and north-west of our area; Westerly and South-Westerly current strong to high on the north coast of Scotland and in Shetland and the Hebrides, but moderate to light generally. A strong to high North-West wind prevailing at Tunis and the adjacent part of Algeria, and a strong Easterly breeze at San Fernando. Backing to the Southward later in Ireland and Wales, and increasing in force from the Westward over the south of Scandinavia. Little other change.

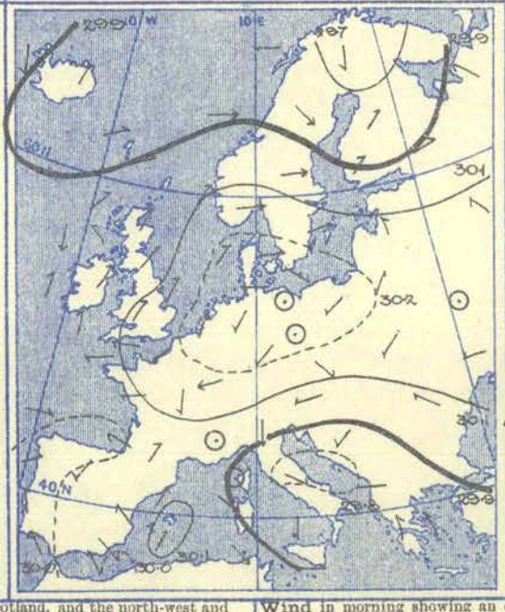
Barometer in morning above 30·3 ins. in an anticyclonic system centred over France, and relatively high in a band extending thence to the White Sea. Below 29·7 ins. in a depression over the south-east of our area, and below 29·4 ins. in another disturbance between the Færoe and Iceland. Latter system partially dispersing by evening and barometer rising briskly in its neighbourhood. A shallow disturbance on the Atlantic causing a slight fall of the barometer along the west coasts of this country.

Monday, 31st May, 1909.

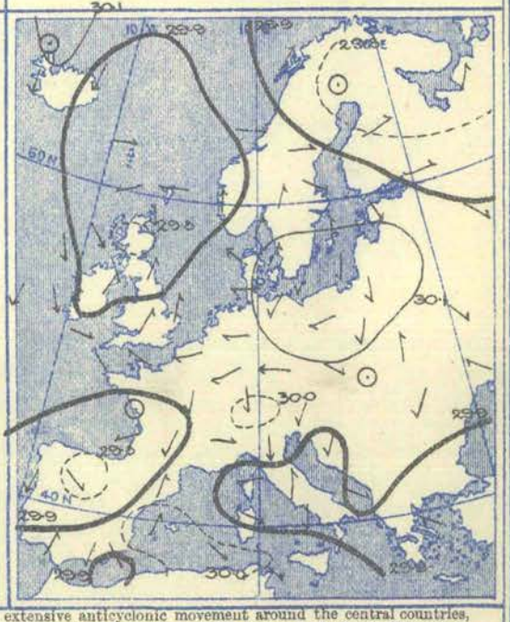
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull, with rain in places, in Ireland, Scotland, and the north-west and north of England, as well as on the west coast of Norway. Fair or fine in nearly all other regions, but rain falling at Cracow, Palermo, Patras, and Tunis. Rain experienced later in day or at night in most of our own western and northern districts, and also in Norway, but remaining fine and dry over our area generally.

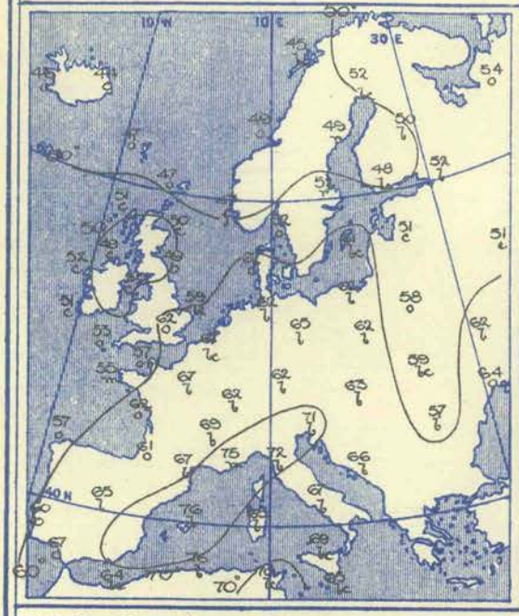
Temperature risen in England, France, and central Europe, fallen in Ireland and Scotland. Readings in morning about 60° in various English localities, in many parts of central Europe, and over the southern regions of Russia; below 50° in the north of Scotland and in several parts of Scandinavia. As high as 76° at Barcelona, and above 70° at some other stations in the south of our area. Rising during day to 73° in London and at Margate, to between 75° and 85° over a large part of France, as well as in Italy, the Spanish Peninsula, and Algeria. Maxima 93° at Madrid and Bilbao.

Wind in morning showing an extensive anticyclonic movement around the central countries, and a cyclonic circulation over Italy and its vicinity. Mainly Southerly to South-Westerly in Ireland and Scotland, but Northerly at Blacksod Point, and also on the Atlantic a little to the west of Ireland. Little force generally, but Westerly current strong to high in Norway. Veering to the Northward over the greater part of Ireland by evening, and to East in the north of Scotland.

Barometer in morning above 30·2 ins. in a high pressure system centred over Germany. Below 29·8 ins. in a depression over the Adriatic and Italy, and also in a large system between Iceland and Norway. Relatively low in a secondary over Ireland. Irish depression moving eastwards during day and a definite minimum appearing over Scotland by evening. Pressure giving way decidedly over England and France, and increasing in Iceland and on our Atlantic seaboard.

Tuesday, 1st June, 1909.

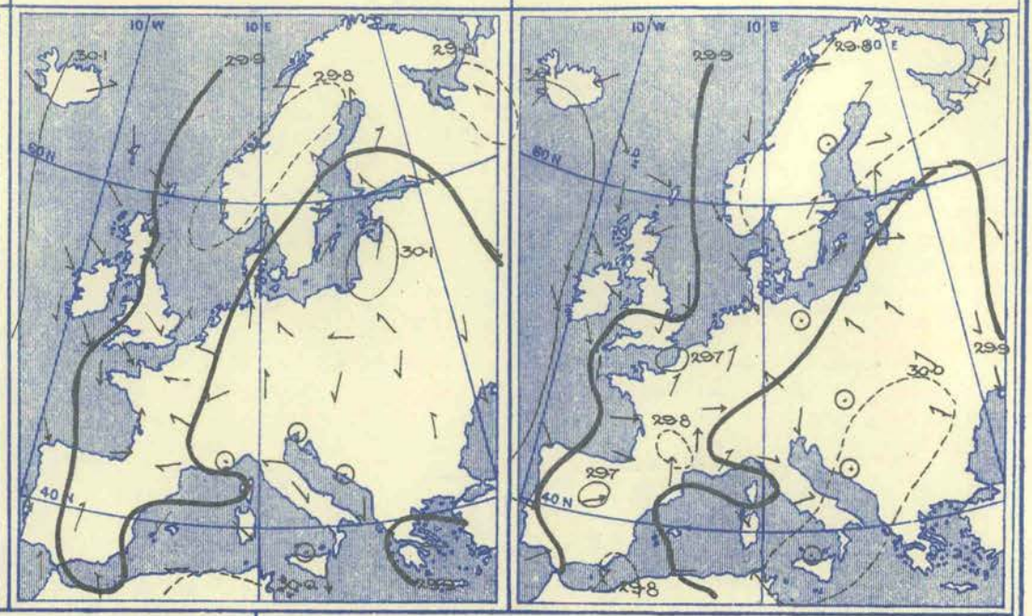
Temperature and Weather. 7 a.m.



Weather in morning unsettled, with much cloud, over these Islands, the north of France, and Scandinavia, with rain in places over a wide area. Generally fair to very fine in all other regions. Considerable or heavy falls of rain later in the southern half of England and the north and west of France, with thunderstorms in places. Some rain experienced in the north of Spain and also in Greece.

Temperature changed rather irregularly; fallen in several districts. Morning readings about 60° in the south of Russia, above 65° over a large portion of France, and about 70° at many stations on the shores of the Mediterranean. Below 50° in the north of these Islands, and also over most of Scandinavia. Rising to above 70° later on the south-east coast of England, but remaining below 60° over a large portion of the Kingdom. Maxima above 80° at many stations in the south of our area, as well as in central Europe, and about 90° in places. Thermometer reaching 95° at Nancy.

Barometer and Wind. 7 a.m. and 6 p.m.

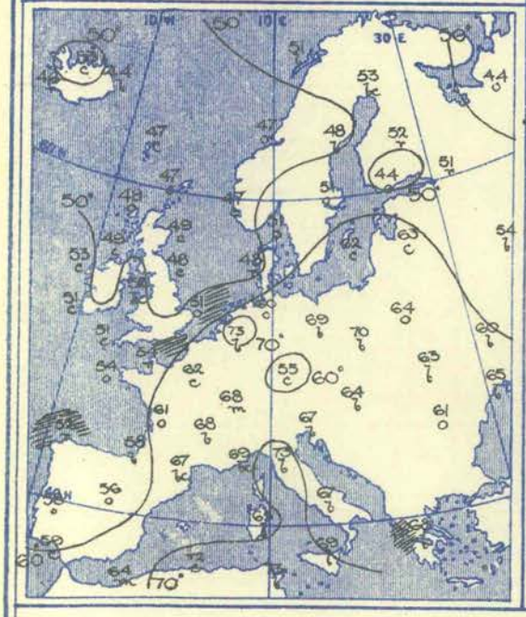


Wind in morning mainly from some Northerly point over these Islands, the Bay of Biscay, Portugal, and also on the west coast of Norway; Southerly on the eastern and southern shores of the North Sea and over the Baltic and Gulf of Bothnia. Light or moderate in force very generally, but strong on the coast of Portugal. Light to moderate variable or Northerly breezes prevailing over the Mediterranean. No change of importance during day.

Barometer in morning 30·0 ins. to above 30·1 ins. in an anticyclone covering a large portion of central Europe and the Baltic region. Below 29·8 ins. in a narrow trough over Scandinavia, and relatively low over the North Sea, England, France, and Spain. Pressure increasing over the north and north-west of these Islands during day, and falling in the south and over France. A small minimum forming over Normandy. Continental high pressure system giving way.

Wednesday, 2nd June, 1909.

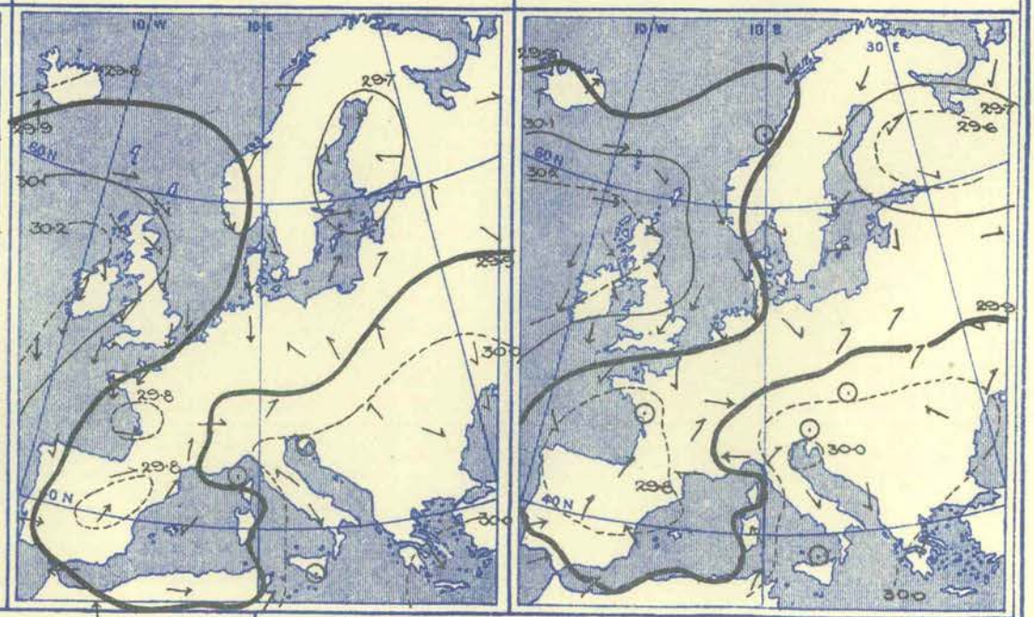
Temperature and Weather. 7 a.m.



Weather in morning generally fair or fine over central and eastern Europe, dull and unsettled elsewhere, with rain at many stations in Spain, France, and southern England, and also at some stations in northern Europe. Considerable rain during day in the countries named, heaviest amount 1·65 ins. at Corunna; thunderstorm occurring at Paris.

Temperature fallen generally over these Islands. Readings at 7 a.m. ranging from 50° or below in Scotland and northern England to about 70° over Germany, and to about 75° at some Mediterranean stations. Maxima during day exceeding 60° only on our south-west coasts, but reaching 85° or 90° in many parts of France and Germany; highest readings 93° at Nancy, 95° at Biskra, and 97° at Laghouat (Algeria).

Barometer and Wind. 7 a.m. and 6 p.m.

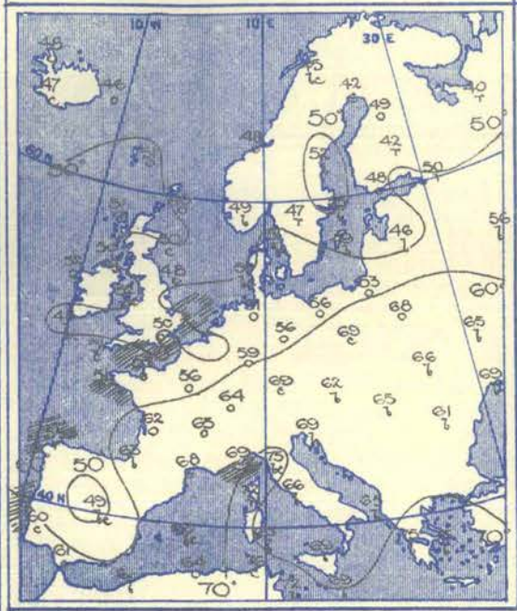


Wind in morning showing cyclonic circulations over northern Europe and over France, light and variable in other parts of the Continent, but Northerly or North-Easterly light to fresh over the British Islands. No important change occurring during day.

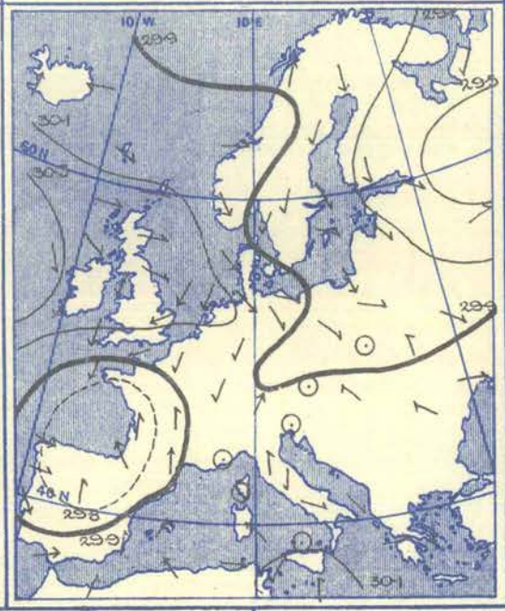
Barometer at 7 a.m. highest, about 30·2 ins., in an anticyclone over the Atlantic, on our western coasts; relatively high, above 30·0 ins., over south-eastern Europe. Lowest, below 29·7 ins., in a depression over northern Europe, and below 29·8 ins. in two other systems lying over France and Spain respectively. The two latter disturbances becoming merged and remaining stationary during day, northern depression moving eastwards across Russia.

Thursday, 3rd June, 1909.

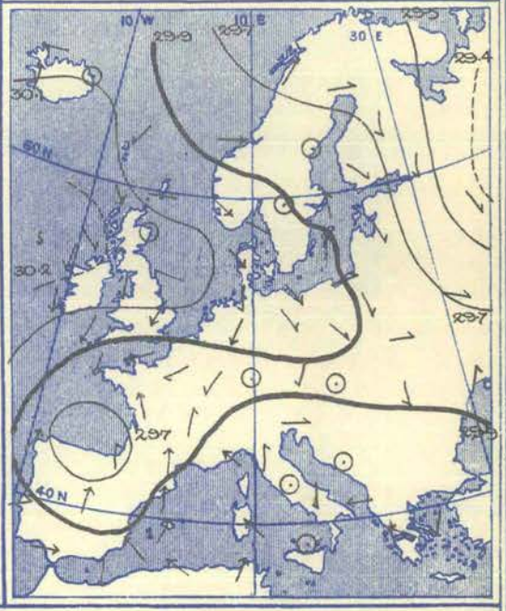
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very dull and rainy over France, the Bay of Biscay, and the south of England, and also in northern Russia; fair or fine in other parts of these Islands, as well as over the greater part of the Continent. Rain continuing all day over the south of England and France, and spreading to Germany. Heaviest falls, 1·4 in. at Jersey, 1·1 in. at Marseilles, 1 inch at Cherbourg, and 2·1 ins. at Cape Gris Nez.

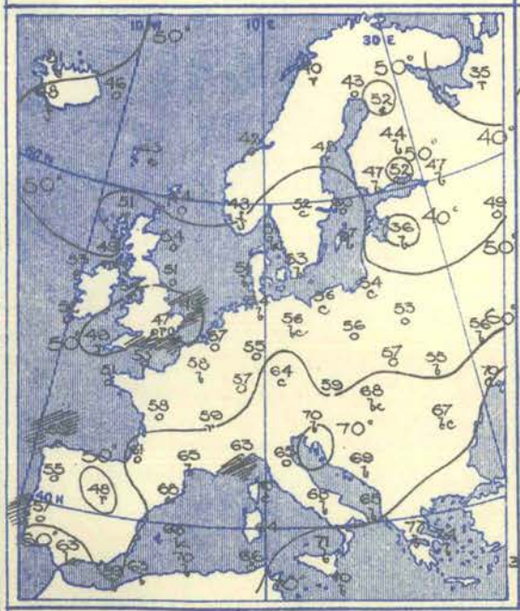
Temperature fallen over France, the Low Countries, and North Germany, quickly over the Baltic, changing very slightly elsewhere. Readings at 7 a.m. below 50° over the greater part of these Islands and northern Europe, but above 70° at some stations in Italy and the Mediterranean region. Remaining below 60° all day at most of our stations, but maxima of about 80° in Italy and the south of France, highest readings of all, 99° at Biskra and Laghouat.

Wind at 7 a.m. Northerly (North-Westerly to North-Easterly) over the western and northern countries, but light and variable in the south and east, strong or high in force over the English Channel. Continuing strong all day along our south coast, not much change elsewhere.

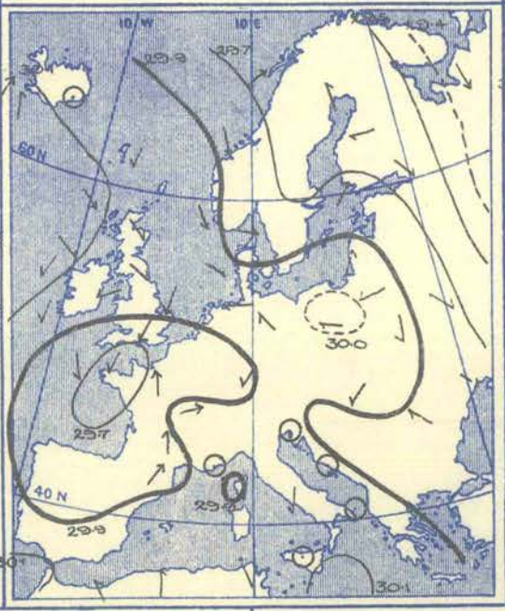
Barometer highest on the Atlantic; above 30¼ ins. over Scotland and Ireland. Lowest, 29·5 ins. over northern Russia; below 29·8 ins. in a depression covering the Bay of Biscay and the neighbouring parts of France and the Peninsula. Pressure decreasing in all parts of western Europe during day.

Friday, 4th June, 1909.

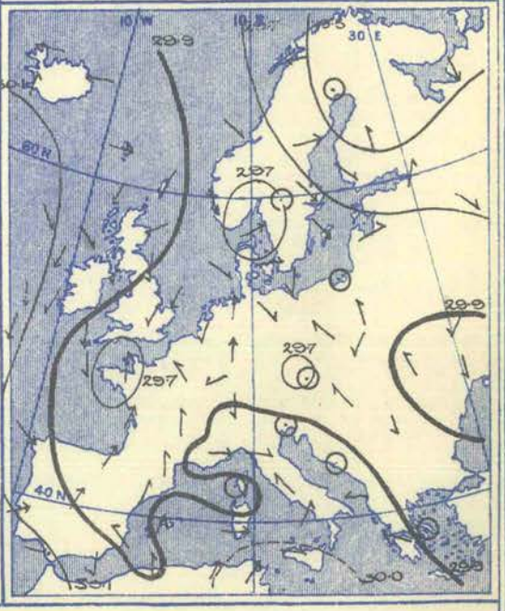
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over south-eastern Europe and the Mediterranean region, cloudy and unsettled over western Europe generally, with rain over the south of England and the north of France, as well as in the north of Scotland, and locally at Madrid and at some Scandinavian stations. Rain falling during day in nearly all parts of our area, largest amounts about half an inch.

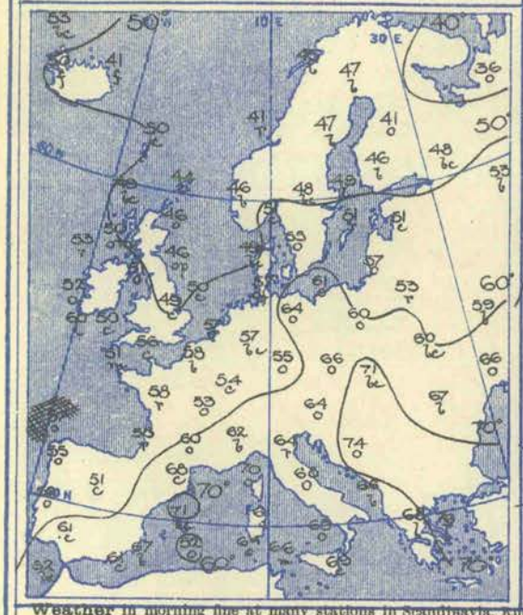
Temperature risen at some of the Scottish and Irish stations, fallen in most parts of England and the Continent. Readings at 7 a.m. ranging from 35° at Archangel, and below 50° over Scandinavia generally and over southern England, to above 60° over southern Europe and the Mediterranean, and to above 70° at some stations in the latter region. Remaining below 60° all day in many parts of these Islands, but reaching 75° or 80° in many parts of southern and south-eastern Europe, and reaching 84° at Buda Pesth.

Wind in morning North-Westerly to North-Easterly over the British Islands, light or moderate generally, but fresh to high over the south-eastern quarter of England. Very variable over the Continent, but South-Westerly or Westerly, moderate, in Spain. Decreasing somewhat in force over the Channel during day, but little other change; fresh gale locally at Skudesnaes.

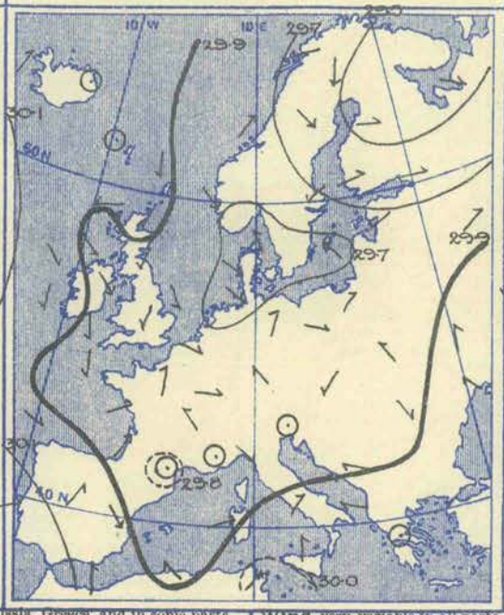
Barometer at 7 a.m. highest, 30·1 ins. and upwards, on the Atlantic off our western coasts, and relatively high over the eastern Mediterranean. Lowest, below 29·4 ins., over Russia, and 29·7 ins. and less in a depression lying over the Channel and north of France. Very little change during day, the depression over the Channel remaining almost stationary.

Saturday, 5th June, 1909.

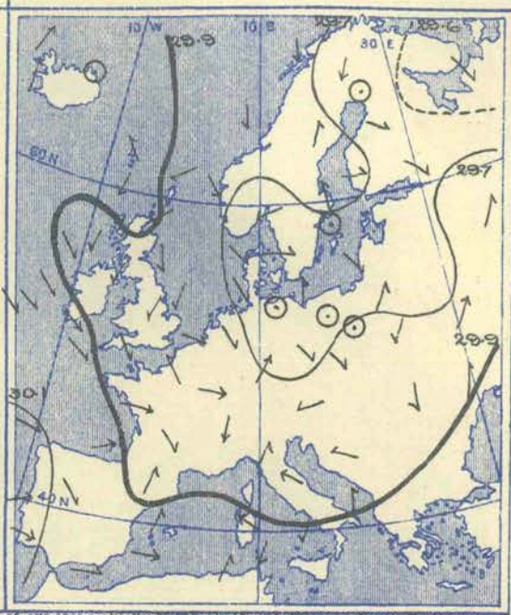
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine at many stations in Scandinavia, Russia, Greece, and in some parts of the Mediterranean region, dull and unsettled over western Europe as a whole, with rain at many of our own stations, on the southern shores of the Bay of Biscay, in northern Italy, and locally at Wisby. Small quantities of rain in most parts of the British Islands during day, but heavy amounts in central Europe, 1·0 in. at Munich, 1·5 in. at Cracow, and 1·7 in. at Lugano.

Temperature fallen in most parts of western Europe, risen over Austria and western Russia. Readings at 7 a.m. ranging from below 40° over northern Russia, and below 50° in most parts of Great Britain and Scandinavia to between 60° and 70° over southern and south-eastern Europe, and to above 70° in some parts of the Mediterranean. Remaining below 60° during day in most of the British Islands, but rising to between 70° and 80° in most parts of the Continent, to above 80° at some Austrian stations and to above 90° in some parts of Algeria.

Wind very variable in all parts of our area; chiefly Northerly (North-West to North-East) over these Islands, Westerly over the Gulf of Finland; Northerly or North-Easterly, fresh, in the south of Norway, South-Westerly strong at Biarritz. No important change occurring during day.

Barometer highest, above 30·1 ins., on the Atlantic, and about 30·0 ins. in the neighbourhood of Malta. Lowest, 29·5 ins. and less, over the White Sea and northern Russia, 29·7 ins. and less over Denmark, the Baltic and Poland. No material modification in pressure during day.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second). (*Continued* on p. 180.)

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	May 24th, 8.20 p.m. to 9.20 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	286° 55% 80°, 12	287° 50% 80°, 15	288° 60% 130°, 15	Omitted by an oversight last week.				287° 60% 160°, 13	700	Overcast, A.-St. Heavy rain and thunder followed. Strong wind at end of ascent.
2	May 24th, 6.0 p.m. to 7.25 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	288° 60% 152°, 3	287° 61% 152°, 4	286° 62% 154°, 8	282° 65% 157°, 10				279° 69% 154°, 11	1,400	Overcast. Wind light. Clouds, Cu.-N. 10.
3	May 25th, 4.43 p.m. to 5.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	285° 88% 156°, 3	284° 87% 154°, 3	283° 85% 152°, 4					282° 85% 156°, 5	600	Overcast, heavy thunder shower at 5.20 p.m. Clouds, N. 10. Wind light.
4	May 26th, 11.28 a.m. to 12.50 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282° 86% 169°, 10	281° 87% 174°, 11	280° 88% 187°, 13	276° 93% 196°, 14				276° 93% 196°, 14	1,000	Heavy showers at intervals. Overcast. Strong breeze. Clouds, N. 10, at 850 m.
5	May 27th, 10.19 a.m. to 11.4 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 80% 214°, 4	284° 81% 215°, 5	283° 83% 216°, 9					279° 88% 224°, 13	800	Heavy showers at intervals. Thunder threatening. Wind light, dead calm at end of flight. Clouds, Cu.-N. 9.
6	May 29th, 12.24 p.m. to 1.53 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 69% 286°, 7	282° 72% 286°, 10	280° 74% 286°, 12	273° 84% 284°, 17				273° 84% 284°, 17	1,000	Overcast. Fresh breeze, very gusty. Clouds, Cu. and N. 9–10.
7	May 31st, 10.8 a.m. to 1.30 p.m.	Howard Estate, Glossop, 335 metres.	Temperature Humidity .. Wind	288° 85% 196°, 5	287° 85% 195°, 8	286° 85% 194°, 9	280° 87% 202°, 13	275° 88% —, 15	273° 90% —, 14		272° 90% —, 14	2,100	Overcast. Moderate breeze. Clouds N. 10. Two kites on separate wires. Upper kite reached clouds at 1,100 metres.
8	June 1st, 5.45 p.m. to 6.12 p.m.	Howard Estate, Glossop, 335 metres.	Temperature Humidity .. Wind	283° 93% 28°, 6	281° 93% 38°, 8	280° 93% 44°, 10					279° 93% —, 12	730	Overcast. Moderate breeze. Clouds N. 10, at about 600 m.
9	June 2nd, 11.15 a.m. to 12.10 p.m.	Howard Estate, Glossop, 335 metres.	Temperature Humidity .. Wind	282° 71% 33°, 7	280° 72% 33°, 8	279° 74% 33°, 9	271° 82% 33°, 13				269° 87% 41°, 14	1,400	Overcast. Fresh breeze. Cu. and N. 10.
10	June 2nd, 2.15 p.m. to 3.0 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	283° 80% 25°, 7	283° 80% 25°, 13	281° 95% 40°, 14	279° 100% 45°, 15				279° 100% 45°, 16	1,060	Overcast, clouds at 700 m. Rain just over. Gusty near the surface, steady above.
11	June 3rd, 9.55 a.m. to 11.20 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	286° 70% 45°, 8	286° 70% 45°, 13	282·5° 85% 55°, 18	279° 95% 65°, 22				278·5° 95% 65°, 23	1,060	Clouds not reached, upper clouds seen occasionally and almost stationary. Extremely irregular and gusty wind.
12	June 3rd, 10.50 a.m. to 12.10 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	283·5° 90% 50°, 14	283° 90% 50°, 20	281° 100% 60°, 24					280° 100% 60°, 24	600	Very strong wind. Overcast, A.-St. and N. Little rain at times.

63, Victoria Street, London, S.W. *June 9th, 1909.*

W. N. SHAW, *Director.*

SPECIAL SUPPLEMENT TO REPORT No. 22, FOR THE WEEK ENDED JUNE 5TH. [*Price* 4*d*.

The Meteorological Department of Manchester University liberated 25 registering balloons from Manchester at intervals of one hour on June 2nd and 3rd, 1909. Twenty of these balloons have been recovered, but one burst prematurely and one trace was illegible. The tabulations of the 18 satisfactory records are given herewith. The results of ascents made at Pyrton Hill (Oxon), and Ditcham Park (Petersfield) on the same dates are added for completeness. Pressure values are expressed in megadynes per square centimetre (mgd), temperature values in degrees Centigrade on the absolute scale (freezing point 273°), direction in degrees, 90° = E., 180° = S., 270° = W., 360° = N.

Height.	1. June 2nd, 7 p.m.		2. June 2nd, 8 p.m.		3. June 2nd, 9 p.m.		4. June 2nd, 11 p.m.			5. June 3rd, 1 a.m.		6. June 3rd, 3 a.m.		7. June 3rd, 5 a.m.		8. June 3rd, 6 a.m.		9. June 3rd, 9 a.m.		10. June 3rd, 10 a.m.		11. June 3rd, 11 a.m.		12. June 3rd, 12 noon.			Height.
km.	mgd.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A. No. 44.	°A. No. 103.	mgd.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A. No. 101.	°A. No. 102.	km.
Ground	1·016	288·1	1·016	285·0	1·017	284·0	1·018	282·8	282·8	1·017	281·2	1·017	280·3	1·017	280·5	1·017	280·8	1·017	284·8	1·018	286	1·018	286·5	1·017	287	287	Ground
0·5	·960	279	·958	280	·960	279	·955	278·0	278·0	·954	276	·959	276·5	·960	278	·956	280	·960	282	·960	281	·954	281	·960	283	284	0·5
1·0	·900	277	·900	277	·902	275	·900	275·0	275·0	·900	**273**	·904	274·0	·908	275·5	·900	276·5	·907	279·5	·907	277·5	·900	278·5	·900	278·5	277	1·0
1·5	·847	275	·849	275	·847	**273**	·840	**272·0**	**272·5**	·840	**270·5**	·851	**272·0**	·853	274	·847	**273**	·853	277·5	·847	275·5	·847	277·5	·849	275·5	**273**	1·5
2·0	·800	274	·800	**272**	·794	**271**	·794	**269·5**	**270·0**	·794	**269**	·798	**270·5**	·807	**272·5**	·794	**270·5**	·800	275	·800	274·5	·796	276·5	·800	274·5	**270·5**	2 0
2·5	·747	**272**	·750	**269·5**	·747	**269·5**	·747	**268·0**	**268·0**	·745	**267**	·750	**269**	·763	**270·5**	·740	**268·5**	·754	274	·747	273·5	·747	274·5	·747	**273**	**271**	2·5
3·0	·700	**269**	·707	**267·5**	·700	**267**	·696	**265·0**	**265·5**	·700	**265**	·693	**266·5**	·716	**269**	·700	**267·5**	·707	**272·5**	·700	**271·5**	·700	**272·5**	·697	**270·5**	**269**	3·0
3·5	·653	**266**	·660	**266**	·660	**265**	·653	**261·5**	**263·5**	·653	**263**	·653	**264·5**	·674	**268**	·660	**266**	·660	**270**	·660	**268·5**	·653	**270**	·653	**268**	**268**	3·5
4·0	·613	**262·5**	·620	**264**	·617	**262**	·617	**259·5**	**261·0**	·613	**260·5**	·613	**262**	·634	**266**	·616	**264·5**	·620	**266·5**	·620	**265·5**	·613	**267**	·620	**265·5**	**265**	4·0
4·5	·573	**260**	·580	**261·5**	·580	**259**	·573	**258**	**259·0**	·573	**257·5**	·580	**260**	·594	**263**	·577	**263**	·580	**263·5**	·587	**262·5**	·573	**264**	·580	**263**	**261·5**	4·5
5·0	·540	**256·5**	·547	**258·5**	·545	**256**	·540	**255**	**256·5**	·533	**254·0**	·544	**257**	·556	**260**	·540	**259**	·547	**260·5**	·547	**259·5**	·540	**262**	·540	**260**	**257**	5·0
5·5	·507	**253**	·514	**255·5**	·507	**253·5**	·507	**252**	**253·5**	·500	**250·5**	·510	**253·5**	·523	**257**	·507	**255**	·507	**257·5**	·514	**256·0**	·507	**259·5**	·514	**257·5**	**254**	5·5
6·0	·474	**248·5**	·480	**252**	·474	**250**	·474	**248·5**	**250·0**	·467	**247**	·478	**250·5**	·491	**253**	·474	**251**	·474	**254**	·487	**253·5**	·474	**257**	·476	**254·5**	**251**	6·0
6·5	·447	**244**	·447	**249**	·440	**246·5**	·443	**245**	**246·5**	·434	**244**	·446	**247·5**	·460	**250**	·447	**248**	·440	**250·5**	·453	**250·5**	·447	**254**	·447	**251·5**	**248**	6·5
7·0	·413	**242**	·418	**245·5**	·411	**242·5**	·407	**241·5**	**242·0**	·400	**240·5**	·418	**245**	·431	**247**	·416	**245**	·413	**248**	·420	**247·0**	·420	**250**	·416	**248·5**	**244**	7·0
7·5	·387	**240**	·387	**242**	·384	**239**	·380	**238**	**238·0**	·373	**236·5**	·387	**242**	·400	**243·5**	·387	**242**	·387	**245**	·394	**244·5**	·387	**246**	·387	**245**	**240·5**	7·5
8·0	·360	**237**	·364	**238·5**	·358	**236**	·355	**235·5**	**234·0**	·347	**232·5**	·360	**239**	·373	**240·0**	·360	**238**	·360	**241**	·360	**240·5**	·360	**240·5**	·360	**241**	**236**	8·0
8·5	·333	**233**	·340	**235·5**	·333	**233**	·333	**232·5**	**231·5**	·320	**228**	·333	**236**	·350	**236**	·333	**234·5**	·333	**236·5**	·333	**236·0**	·340	**235**	·333	**236·5**	**232**	8·5
9·0	·314	**229**	·316	**232**	·310	**229**	·307	**229·5**	**228·5**	·300	**224·5**	·314	**232·5**	·323	**232**	·307	**231**	·314	**233**	·314	**231·5**	·314	**231**	·307	**231**	**227·5**	9·0
9·5	·287	**226·5**	·293	**229**	·287	**224·5**	·287	**226·5**	**224·5**	·274	**222**	·287	**229·5**	·300	**229**	·284	**227·5**	·293	**230·5**	·293	**228·0**	·293	**228**	·287	**226·5**	**224**	9·5
10	·267	**224**	·274	**226**	·264	**222**	·267	**223·5**	**221·5**	·253	**220**	·267	**226**	·280	**227·5**	·261	**223·5**	·274	**228**	·267	**226·5**	·267	**225·5**	·267	**224**	**222**	10
11	·227	**220·5**	·234	**221·5**	·227	**226**	·227	**219·0**	**218·5**	·220	**221**	·231	**221**	·240	**225·5**	·227	**221·5**	·234	**227**	·234	**225·5**	·234	**221·5**	·230	**223**	**221**	11
12	·200	**224**	·205	**223·5**	·198	**227**	—	—	—	·187	**224**	·200	**225**	·209	**227**	·194	**226**	·200	**230**	·200	**225·5**	·200	**225·5**	·200	**227·5**	**224**	12
13	·173	**225**	·173	**225·5**	·169	**226**	—	—	—	·164	**223**	·173	**226·5**	·182	**227·5**	·167	**226**	·173	**231**	·173	**230·0**	·173	**231·5**	·171	**228·5**	**226·5**	13
14	·146	**223·5**	·151	**224**	·146	**224·5**	—	—	—	·138	**222**	·149	**226·5**	·157	**226·5**	·145	**225**	·149	**230·5**	·153	**228·5**	·146	**230·0**	·146	**227·5**	**225**	14
15	·126	**221**	·135	**221**	·125	**222·5**	—	—	—	·120	**221**	·127	**226**	·133	**225·5**	·126	**223**	·129	**228**	·126	**226·5**	·126	**228·5**	·126	**227·0**	**224·5**	15
16	·106	**220**	·110	**218·5**	·106	**221·5**	—	—	—	·103	**220·5**	·106	**225**	·113	**225**	·106	**222**	·109	**228**	·113	**226·0**	·106	**228**	·110	**225·5**	**225**	16
17	·093	**219**	·093	**217**	—	—	—	—	—	·088	**220·5**	·093	**223·5**	·100	**225**	·093	**221**	·095	**228·5**	·097	**226·5**	·093	**228·5**	·093	**225·5**	**225·5**	17
18	·080	**219**	—	—	—	—	—	—	—	·073	**220·5**	·080	**223**	·087	**224·5**	·073	**222**	·083	**229**	·080	**227·0**	·080	**231**	·081	**226·5**	**227**	18
19	—	—	—	—	—	—	—	—	—	—	—	·066	**222·5**	·073	**224·5**	·067	**223·5**	—	—	·071	**229·0**	·071	**233**	·072	**228·5**	—	19
20	—	—	—	—	—	—	—	—	—	—	—	·060	**222·5**	·067	**224·5**	—	—	—	—	·060	**231·0**	·060	**233·5**	—	—	—	20
21	—	—	—	—	—	—	—	—	—	—	—	·049	**223**	·053	**224·5**	—	—	—	—	·053	**233·0**	·053	**233·5**	—	—	—	21
22	—	—	—	—	—	—	—	—	—	—	—	·044	**226**	·047	**225**	—	—	—	—	·044	**235·5**	·047	**232·5**	—	—	—	22
At min. Pressure.	·073	**219**	·087	**217**	·099	**221·5**	·207	222·5	**221·5**	·067	**221·0**	·040	**231**	·039	**225·5**	·053	**226**	·080	**229**	·036	**238·0**	·047	**232·5**	—	**229·5**	**228**	At min. Pressure.
Max. Height (km.).	18·5		17·7		16·5		11·7			18·7		22·57		22·9		19·8		18·2		22·7		22·07		—	19·24	18·32	Max. Height (km.).
Place of fall	York.		Wharram, Yorks.		York.		Tadcaster.			York.		Tadcaster.		Tadcaster.		Nr. Leeds.		Leeds.		Leeds.		Nr. Leeds.		Bradford.			Place of fall.
Direction ..	55°		55°		55°		55°			55°		55°		55°		50°		55°		55°		40°		45°			Direction.
Distance .. (km.).	95		120		95		80			95		80		80		65		58		58		75		50			Distance (km.).
Gradient ..	0·62°		0·60°		0·62°		0·60°			0·64°		0·57°		0·58°		0·61°		0·60°		0·60°		0·60°		0·62°			Gradient.

The last line in the Table gives the temperature gradient in degrees Centigrade per 100 m. from 0 to 8 km.
Two instruments were attached to the balloon in ascents Nos. 4, 12, 14 and 15.

(14778—24.) Wt. 103—466. 450. 12/09. D & S.

Height.	Manchester.												Ditcham Park, Petersfield.								Pyrton Hill, Oxon.		Height.
	13. June 3rd, 2 p.m.		14. June 3rd, 3 p.m.			15. June 3rd, 4 p.m.			16. June 3rd, 5 p.m.		17. June 3rd, 6 p.m.		18. June 3rd, 7 p.m.		19. June 3rd, 1 a.m.		20. June 3rd, 7 a.m.		21. June 3rd, 1 p.m.		22. June 3rd, 7 p.m.		23. June 3rd, 1 p.m.		
Km.	mgd.	°A.	mgd.	°A. No. 98.	°A. No. 96.	mgd.	°A. No. 89.	°A. No. 37.	mgd.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A.	Km.
Ground	1·016	287·6	1·014	287 7	287·5	1·014	287·5	287·5	1·014	286·9	1·014	286·6	1·014	285·6	·996	280	·996	280	·999	286	·994	286	·999	286	Ground
0·5	·933	281	·960	280·5	283·5	·960	283·5	279·5	·963	281·5	·954	278·5	·954	276	·955	280	·940	278·5	·958	283	?	?	·958	281	0·5
1·0	·880	277	·893	277·5	279	·907	276·5	277·0	·910	277·5	·900	276·0	·900	275·5	·896	279	·887	278	·901	279	·893	276·5	·901	276·5	1·0
1·5	·827	274	·834	275	275	·856	274·5	276	·853	275·5	·847	275	·847	274	·843	279	·834	278	—	—	·840	276·5	·848	279·5	1·5
2·0	·780	273	·780	274	274·5	·800	273·5	275·5	·794	273·5	·800	273	·800	272	·791	277	·787	276·5	·796	278·5	·791	274·5	·796	279·5	2·0
2·5	·744	272	·740	273·5	274	·747	272	274·5	·747	271·5	·747	271	·751	270	·742	274·5	·733	275	—	—	·747	273	·750	277	2·5
3·0	·700	269·5	·693	272·5	271·5	·700	269·5	273	·700	269·5	·700	269·5	·702	268	·700	270	·693	272·5	·702	275·5	·701	271	·704	276	3·0
3·5	·660	266	·653	268	268	·660	268	271	·660	268·0	·660	267·5	·653	265·5	—	—	·653	269	—	—	—	—	—	—	3·5
4·0	·620	263·5	·613	265	265	·616	266	269·5	·620	265·5	·613	265	·613	262·5	·617	263	·613	266	·622	272	·618	265	·618	271·5	4·0
4·5	·580	261	·580	261·5	262	·580	263	267	·587	262·5	·580	263	·573	259·5	—	—	·567	264·5	—	—	—	—	—	—	4·5
5·0	·545	258·5	·540	258·5	260	·540	261	264	·554	259·5	·540	259·5	·540	255·5	·542	257	·540	262·5	·551	269	·545	257	·544	266	5·0
5·5	·507	256·5	·507	255·5	258	·507	258	260·5	·520	255·5	·507	256·0	·507	252	—	—	·507	260	—	—	—	—	—	—	5·5
6·0	·474	253·5	·474	253	254·5	·474	255	256·5	·487	253	·474	252	·474	248·5	·475	252	·474	257	·484	263	·478	250	·478	260	6·0
6·5	·447	250·5	·447	251	251·5	·440	252	253	·453	249·5	·440	248	·447	243·5	—	—	·447	254	·	—	—	—	—	—	6·5
7·0	·413	247	·420	248	248·5	·413	248	250	·427	246·5	·413	244	·417	240	·413	244	·420	250	·424	254	·417	243	·417	253·5	7·0
7·5	·387	243·5	·387	245	246	·387	245	247	·400	243·5	·387	240	·387	235·5	—	—	·387	246·5	—	—	—	—	—	—	7·5
8·0	·363	240	·367	243	243	·360	242·5	243	·373	240·5	·360	235·5	·360	231	·358	236	·360	242 5	·371	249	·363	234·5	·364	245	8·0
8·5	·336	236·5	·340	238	239	·337	240	238	·347	237·5	·336	232	·336	226·5	—	—	·333	238·5	—	—	—	—	—	—	8·5
9·0	·314	233·5	·314	233·5	234	·314	237	233·5	·320	234·5	·314	227·0	·314	222	·311	228	·307	234	·324	243·5	·312	226	·315	239	9·0
9·5	·293	230·5	·293	229	230	·293	233·5	230	·300	230	·287	222	·287	218	—	—	·293	230	—	—	—	—	—	—	9·5
10	·267	228	·274	226	226	·267	230	227	·274	227·5	·267	216	·267	218	·271	221	·274	226·5	·280	237	·268	218	·271	232·5	10
11	·231	225	·234	222·5	223	·231	225	221	·234	221	·227	216·5	—	—	·230	212·5	·234	222	·243	230·5	·230	212 ?	·231	223	11
12	·196	229	200	223	223·5	·200	222	218	·200	221·5	·194	220·5	—	—	·196	213	·200	221·5	·208	224	·195	220	·199	223	12
13	·168	230·5	·173	225	226	·169	218·5	217·5	·173	227	·165	223	—	—	·167	215	173	226·5	·177	230	·167	218	·171	227·5	13
14	·146	229·5	·146	226	227·5	·146	225·5	224·5	·149	227	·144	221·5	–	—	—	—	·146	230	·151	231·5	·142	221	·148	227	14
15	·126	228·5	·129	226	228	·126	225	223·5	·129	224·5	·122	220	—	—	—	—	·126	231	·129	232	—	—	·127	227	15
16	·106	227·5	·113	224·5	226·5	·113	223	221	·106	223·5	·109	219·5	—	—	—	—	·113	230	—	—	—	—	·110	228	16
17	·093	227	·097	224·5	226	·093	222	220	·093	223	·093	219·5	—	—	-	—	·093	229	·097	231	—	—	·093	228	17
18	·080	227	·080	224·5	228·5	·080	222	221·5	·083	222·5	·080	220·5	—	—	—	—	·084	229	—	—	—	—	—	—	18
19	·072	227·5	·071	224·5	229	·069	223	224	·073	222·5	·067	221·5	—	—	—	—	·073	231	·074	230	—	—	—	—	19
20	·064	227·5	·060	224·5	229·5	·060	225	223·5	·067	223·5	·056	222·5	—	—	—	—	—	—	—	—	—	—	—	—	20
21	·055	228·5	·053	245	230	—	—	—	·056	225	·049	222·5	—	—	—	—	—	—	—	—	—	—	—	—	21
22	·048	229·5	·047	—	231	—	—	—	·047	227	—	—	—	—	—	—	—	—	—	—	—	—	—	—	22
23	·040	231·0	·040	—	232	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	23
24	·033	232	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	24
At min. Pressure.	·031	233	·040	245	232·5	—	227	223	·040	229	·047	222·5	·253	218·5	—	—	·060	233	—	—	—	—	—	—	At min. Pressure.
Max. Height (km.).	24·7		23·4			20·4	20·3		22·6		21·2		10·3		—		19·9		—		—		—		Max. Height (km.).
Place of fall.	Nr. Shipley, Yorks.		Keighley.			Nr. Keighley,			Nr. Hebden Bridge.		Nr.Keighley.		Waterfoot.		Stratton Strawler.		Maidenhead.		Didcot.		Kidlington.		Nr. North-ampton.		Place of fall.
Direction ..	45°		25°			25°			25°		25°		0°		37½°		11°		342°		346°		5°		Direction.
Distance .. (km.).	50		50			50			30		40		25		250		70		72		99		64		Distance (km.).
Gradient ..	0·59°		0·57°			0·59°			0·59°		0·66°		0·70°		0·55°		0·56°		0·46		0·64°		0·51°		Gradient.

The last line in the Table gives the temperature gradient in degrees Centigrade per 100 m. from 0 to 8 km.

20, 21. The instruments were returned in damaged condition and the calibrations before and after the ascents do not agree, hence some doubt attaches to the figures. The figures for No. 20 differ slightly from those published for the same ascent on p. 252 of the Weekly Weather Report, they are taken from the trace of a second instrument attached to the balloon, which was evaluated independently by a different tabulator.

Kite Ascents at the Howard Estate Observatory, Glossop Moor.

Temperature (degrees A.), Humidity (per cent.), and Wind Direction (in degrees, 90°=E., 180°=S., 270°=W., 360°=N.), and Velocity (metres per second).

No.	Date of Observations		Ground Level.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At greatest Height.	Remarks.
	1909.								Metres.	
1	June 2nd { Ascent 7.13 p.m.—8.54 p.m. .. Descent 8.54 p.m.—9.45 p.m.	Temp. ..	—	—	—	—	—	—	—	{ Thermograph pen failed to mark.
		Humidity	72%	72%	80%	65%	60%	—	— >2,000	
		Wind ..	45°. 5	45°. 6	45°, 12	33°, 16	33°. 11	—	—	
2	June 2nd { Ascent 10.25 p.m.—11.19 p.m. Descent 11.19 p.m.—Midnight	Temp. ..	278·6°	276°	274°	—	—	—	274°	{ Slight inversions of temperature. 273·6° at 1250 m.
		Humidity	85%	85%	80%	—	—	—	65% >1,380	
		Wind ..	56°. 5	45°, 9	45°, 14	—	—	—	33°, 14	
3	June 3rd { Ascent 12.35 a.m.—2.0 a.m. .. Descent 2.0 a.m.—3.13 a.m. ..	Temp. ..	276·9°	277°	275°	274°	—	—	**272°**	{ Very fine; moonlight, clouds Cu. and Fr.—Cu. from 34°.
		Humidity	90%	84%	68%	50%	—	—	50% >1,750	
		Wind ..	45°. 5	45°, 10	45°, 3	34°, 13	—	—	45°, 13	
4	June 3rd { Ascent 3.30 a.m.—5.41 a.m. .. Descent 5·41 a.m.—5.56 a.m...	Temp. ..	276·9°	277·4°	276°	**272·4°**	—	—	**273°**	Kites broke away at 5.56 a.m.
		Humidity	95%	92%	91%	85%		—	82% >1,590	
		Wind ..	22°, 5	34°, 8	56°, 11	56°, 9	—	—	56°, 8	
5	June 3rd { Ascent 7.56 a.m.—10.34 a.m... Descent 10.34 a.m.—10.52 a.m.	Temp. ..	281·3°	280°	277°	275°	—	—	—	{ Clouds A—Cu. from ESE (112°) at 9 a.m.
		Humidity	75%	75%	70%	70%	—	—	— >1,500	
		Wind ..	45°, 6	56°, 13	45°, 14	45°, 13	—	—	—	
6	June 3rd { Ascent 4.23 p.m.—7.4 p.m. .. Descent 7.4 p.m.—8.11 p.m...	Temp. ..	284°	281°	274°	**272°**	—	—	**272°**	Clouds A—Cu. and A—St.
		Humidity	63%	70%	72%	50%	—	—	40% >1,790	
		Wind ..	56°, 5	56°, 9	45°, 13	56°, 13	—	—	56°, 13	

Two Kites, having a total sail area 15 sq. m., were used for each ascent.

Particulars of Pilot Balloon Ascents at Ditcham Park and Pyrton Hill, and of the wind directions and velocities observed in connexion with some of the Registering Balloon Ascents for which results for pressure and temperature are given above, will be found on p. 204 of the Weekly Weather Report for 1909, No. 25.

The results given above are stated in absolute or metric units. The units adopted for each element are as follows :—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (mgd.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water=273°; Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 23. TWENTY-THIRD WEEK, SUNDAY JUNE 6TH TO SATURDAY JUNE 12TH, 1909. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—General Remarks.

Weather.—Over the United Kingdom generally the weather was cloudy and dry, and in several parts of Scotland, Ireland, Wales, and the north-west of England no measurable quantity of rain was recorded. Other districts experienced showers on Sunday or during the latter half of the week. Thunder and heavy rain occurred at Portsmouth on Sunday, lightning was seen at Southport on Thursday evening, and at Epsom on Saturday. Thunder was heard also at Ventnor on Saturday.

Temperature was below the average, the deficit ranging from about 5½° in England S.E., the Midland Counties, and England E. to 2° in Scotland N. and to 1°·2 in the English Channel. The highest of the maxima, which occurred generally between the 7th and 10th, ranged from 69° in Scotland E. and England S.E. and S.W. to 64° in Ireland N. The lowest of the minima were recorded on rather irregular dates, and varied from 30° in England S.W., and 31° in Scotland E. to 36° in Ireland S. and to 48° in the English Channel. Frost was experienced on the grass in several places, the lowest minima reported being 21° at Llangammarch Wells, 26° at Burnley, 27° at Newton Rigg, 28° at Buxton and West Linton, and 29° in several other localities, including Greenwich and Kew.

Mean Temperature of the Sea.—On several parts of the west and south-west coasts and also on the north-east coast of Scotland the water was warmer than during the corresponding week of last year, but elsewhere it was colder. The actual figures ranged from 57°·8 at Margate and 57°·1 at Newquay to below 50° at many places on the north-east coast, and to below 48° at Aberdeen.

Rainfall was less than the average in all districts, the difference being very striking in the north and west.

Bright Sunshine exceeded the average in Scotland E. and W. and also in the Channel Islands, but was deficient over the Kingdom generally. The percentage of the possible duration ranged from 56 in the English Channel, 46 in Scotland W., and 39 in Scotland E. to 22 in the Midland Counties.

Barometer and Wind.—Soon after the week commenced a large anticyclonic system extended gradually over these Islands from the Atlantic, and by Tuesday almost the whole Kingdom was under its influence. During the latter half of the period, however, it receded very slowly westwards, while shallow and ill-defined barometric disturbances appeared over the North Sea region and the eastern and south-eastern parts of Great Britain. The general direction of the wind was between North and North-West, but it varied somewhat in places: early in the week it was mainly Easterly in the southern parts of England.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 180.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Very deficient	Very deficient	Very deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Light	Light	Very light	Moderate	Moderate	Moderate	Light	Very light	Moderate	Very light	Very light	Light
	Sunshine ...	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 1 week from June 6th, 1909.	Warmth ...	**0** * **1**	**0** * **1**	**0** * **1**	**0** * **1**	**0** * **1**	**0** * **1**	**0** * **1**	**0** * **1**	**0** * **1**	**0** * **1**	**0** * **1**	**0** * **1**
	Rainfall ...	**0** * **1**	**0** * **1**	**0** * **1**	**0** * **0**	**0** * **0**	**0** * **0**	**0** * **1**	**0** * **1**	**0** * **0**	**0** * **1**	**0** * **1**	**0** * **1**
	Sunshine ...	**0** * **0**	**0** * **0**	**0** * **0**	**0** * **1**	**0** * **1**	**0** * **1**	**0** * **0**	**0** * **0**	**0** * **0**	**0** * **0**	**0** * **1**	**0** * **0**

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	**4** * **4**	**4** * **6**	**4** * **4**	**1** * **3**	**5** * **4**	**2** * **4**	**3** * **3**	**2** * **4**	**3** * **3**	**2** * **3**	**3** * **3**	**3** * **3**
	Rainfall ...	**2** * **7**	**3** * **6**	**2** * **8**	**3** * **6**	**4** * **7**	**3** * **7**	**4** * **5**	**5** * **5**	**3** * **8**	**5** * **8**	**2** * **6**	**2** * **6**
	Sunshine ...	**4** * **3**	**6** * **4**	**5** * **4**	**5** * **4**	**7** * **4**	**6** * **2**	**5** * **3**	**7** * **3**	**7** * **3**	**4** * **3**	**5** * **4**	**5** * **4**
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	**10** * **2**	**8** * **3**	**10** * **1**	**7** * **2**	**8** * **2**	**6** * **2**	**10** * **2**	**7** * **2**	**6** * **2**	**10** * **2**	**9** * **2**	**10** * **2**
	Rainfall ...	**5** * **6**	**5** * **5**	**3** * **6**	**2** * **5**	**2** * **5**	**1** * **7**	**5** * **5**	**2** * **5**	**2** * **5**	**3** * **6**	**4** * **4**	**2** * **6**
	Sunshine ...	**3** * **3**	**4** * **6**	**2** * **4**	**4** * **3**	**3** * **4**	**8** * **1**	**1** * **7**	**6** * **4**	**4** * **3**	**2** * **5**	**1** * **6**	**7** * **2**
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	**3** * **2**	**3** * **2**	**2** * **7**	**4** * **6**	**2** * **6**	**4** * **6**	**3** * **2**	**4** * **6**	**4** * **6**	**5** * **1**	**4** * **2**	**5** * **5**
	Rainfall ...	**2** * **6**	**3** * **5**	**1** * **6**	**3** * **7**	**3** * **7**	**4** * **8**	**4** * **3**	**2** * **6**	**4** * **8**	**3** * **4**	**3** * **6**	**5** * **8**
	Sunshine ...	**6** * **2**	**5** * **3**	**3** * **3**	**4** * **6**	**4** * **6**	**5** * **4**	**4** * **2**	**8** * **1**	**6** * **2**	**4** * **5**	**2** * **4**	**6** * **3**
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	**4** * **3**	**5**½* **7**	**6** * **2**	**4** * **1**	**6** * **2**	**3** * **4**	**6** * **1**	**6** * **3**	**4** * **4**	**6** * **2**	**4** * **4**	**5** * **1**
	Rainfall ...	**3** * **5**	**8** * **2**	**7** * **5**	**7** * **4**	**6** * **4**	**6** * **3**	**5** * **4**	**6** * **5**	**5** * **4**	**5** * **4**	**6** * **4**	**5** * **4**
	Sunshine ...	**2** * **2**	**3** * **4**	**4** * **5**	**5** * **5**	**6** * **4**	**6** * **4**	**5** * **4**	**7** * **4**	**6** * **4**	**5** * **5**	**6** * **3**	**5** * **5**

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-THIRD WEEK—June 6th to June 12th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	65	35	56·5	43·0	49·3	– 2·0	51	– 16	0	– 1	2	– 1	0·04	– 0·52	35	– 5	28	– 4
Eastern																		
1. SCOTLAND, EAST	69	31	59·3	42·0	50·0	– 2·5	56	– 18	0	– 1	1	– 1	0·06	– 0·39	47	+ 4	39	+ 3
2. ENGLAND, N.E.	68	33	58·3	43·2	50·2	– 3·3	57	– 23	0	0	2	– 1	0 09	– 0·35	39	– 4	34	– 4
3. ENGLAND, EAST	67	35	57·6	43·5	50·1	– 5·3	57	– 37	0	0	4	+ 1	0·39	– 0·14	38	– 10	33	– 8
4. MIDLAND COUNTIES	67	33	57·9	43·2	50·0	– 5·5	56	– 39	0	0	2	0	0·26	– 0·22	25	– 18	22	– 16
5. ENGLAND, S.E.	69	35	58·4	44·6	51·0	– 5·5	63	– 39	0	0	3	0	0·34	– 0·16	34	– 14	30	– 13
Western																		
6. SCOTLAND, WEST	68	32	59·2	42·7	50·4	– 3·7	59	– 25	0	0	1	– 2	0·02	– 0·56	54	+ 7	46	+ 6
7. ENGLAND, N.W.	66	32	57·2	43·7	50·0	– 4·8	56	– 33	0	0	1	– 2	0·07	– 0·37	43	– 5	37	– 4
8. ENGLAND, S.W.	69	30	59·3	45·9	52·2	– 3·6	71	– 26	0	0	2	– 1	0·30	– 0·20	43	– 6	38	– 5
9. IRELAND, NORTH	64	33	57·4	46·2	51·4	– 2·7	66	– 18	0	0	1	– 2	0·03	– 0·53	39	– 3	33	– 3
10. IRELAND, SOUTH	65	36	60·5	46·4	52·9	– 2·6	76	– 19	0	0	1	– 2	0·04	– 0·51	37	– 8	32	– 7
11. ENGLISH CHANNEL	67	48	61·2	50·4	55·4	– 1·2	94	– 8	0	0	2	– 1	0·11	– 0·33	62	+ 6	56	+ 6

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 1 Week, June 6th to June 12th, 1909.

0. SCOTLAND, NORTH	65	35	*	*	*	*	51	– 16	0	– 1	2	– 1	0·04	– 0·52	35	– 5	23	– 4
Eastern																		
1. SCOTLAND, EAST	69	31	*	*	*	*	56	– 18	0	– 1	1	– 1	0·06	– 0·39	47	+ 4	39	+ 3
2. ENGLAND, N.E.	68	33	*	*	*	*	57	– 23	0	0	2	– 1	0·09	– 0·35	39	– 4	34	– 4
3. ENGLAND, EAST	67	35	*	*	*	*	57	– 37	0	0	4	+ 1	0·39	– 0·14	38	– 10	33	– 8
4. MIDLAND COUNTIES	67	33	*	*	*	*	56	– 39	0	0	2	0	0·26	– 0·22	25	– 18	22	– 16
5. ENGLAND, S.E.	69	35	*	*	*	*	63	– 39	0	0	3	0	0·34	– 0·16	34	– 14	30	– 13
Western																		
6. SCOTLAND, WEST	68	32	*	*	*	*	59	– 25	0	0	1	– 2	0·02	– 0·56	54	+ 7	46	+ 6
7. ENGLAND, N.W.	66	32	*	*	*	*	56	– 33	0	0	1	– 2	0·07	– 0·37	43	– 5	37	– 4
8. ENGLAND, SW.	69	30	*	*	*	*	71	– 26	0	0	2	– 1	0·30	– 0·20	43	– 6	38	– 5
9. IRELAND, NORTH	64	33	*	*	*	*	66	– 18	0	0	1	– 2	0·03	– 0·53	39	– 3	33	– 3
10. IRELAND, SOUTH	65	36	*	*	*	*	76	– 19	0	0	1	– 2	0·04	– 0·51	37	– 8	32	– 7
11. ENGLISH CHANNEL	67	48	*	*	*	*	94	– 8	0	0	2	– 1	0·11	– 0·33	62	+ 6	56	+ 6

THE YEAR.—Aggregates, &c., for the Period of 23 Weeks, January 3rd to June 12th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	480	– 35	535	– 21	105	– 2	16·47	– 4·93	532	– 2	28	0
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	534	– 71	673	+ 53	88	+ 2	14·32	+2·61	591	– 20	31	– 1
2. ENGLAND, N.E.	81	14	*	*	*	*	655	+ 23	580	+105	76	– 4	9·44	+0·52	696	+ 51	36	+ 3
3. ENGLAND, EAST	82	12	*	*	*	*	726	– 59	554	+ 33	79	+ 1	8·46	– 0·39	802	+119	42	+ 6
4. MIDLAND COUNTIES	82	8	*	*	*	*	776	– 38	642	+109	70	– 6	9·07	– 1·12	711	+101	37	+ 5
5. ENGLAND, S.E.	82	0	*	*	*	*	765	–104	482	+101	74	0	10·24	+0·13	851	+172	44	+ 9
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	646	– 30	445	+ 20	84	– 8	17·54	– 0·86	659	+ 40	34	+ 2
7. ENGLAND, N.W.	79	10	*	*	*	*	693	– 20	466	+ 80	78	– 6	12·00	– 0·73	763	+144	40	+ 7
8. ENGLAND, S.W.	81	7	*	*	*	*	756	–106	390	+ 89	80	– 3	12·81	– 1·77	789	+104	41	+ 5
9 IRELAND, NORTH	72	14	*	*	*	*	740	– 4	315	– 30	100	+ 2	14·06	– 0·46	614	+ 11	32	+ 1
10. IRELAND, SOUTH	76	15	*	*	*	*	901	– 13	265	+ 6	95	+ 6	15·53	– 0·54	697	+ 30	36	+ 2
11. ENGLISH CHANNEL	78	25	*	*	*	*	1056	+ 35	151	+ 42	80	–10	12·17	– 0·19	926	+107	48	+ 6

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℜ is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*53*	*8th*	*42*	*10th*	*51·4*	*43·4*	*47·1*	—	*36*	*0*	6	*0·18*	—	*27·6*	—	*21*	—	*Balta Sound.*
	a Sumburgh Head ..	52	11th, 12th	38	6th, 12th	50·9	41·3	45·8	- 1·9	30	2	5	0·17	- 0·26	40·9	+ 3·5	33	+ 3	Deerness.
	a Stornoway	55	7th, 12th	41	7th	53·7	44·9	49·0	- 1·2	49	0	2	0·04	- 0·49	11·9	-31·2	10	-25	Stornoway.
	a Castlebay, Barra Isd.	*56*	*6th*	*46*	*10th*	*54·0*	*47·1*	*50·3*	- *3·2*	*58*	*0*	*3*	*0·06*	—	*28·1*	—	*23*	—	*Castlebay.*
	a Wick	56	8th	39	7th	54·6	42·7	48·2	- 2·0	43	0	5	0·07	- 0·35	*	*	*	*	
	p Strathpeffer	62	12th	40	10th	59·9	44·0	51·4	- 0·4	66	0	0	0·00	- 0·43	52·3	+14·5	43	+12	Strathpeffer.
	p Glencarron ..	60	12th	35	6th	56·2	42·9	49·1	- 1·6	50	0	0	0·00	- 0·97	*	*	*	*	
	p Fort Augustus	65	12th	35	6th	59·5	42·3	50·3	- 1·6	58	0	0	0·00	- 0·47	34·2	+ 2·9	28	+ 2	Fort Augustus.
SCOTLAND, N. — b, Mainland.	*p* Fort William	65	6th	37	6th	60·9	42·9	51·3	- 1·7	65	0	0	0·00	- 0·83	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	62	7th	36	7th	57·7	41·7	49·1	- 3·2	51	1	2	0·16	- 0·38	*44·2*	—	*36*	—	*Gordon Castle.*
	a Nairn	62	7th	35	6th	58·0	42·4	49·7	- 2·7	54	0	1	0·01	- 0·38	47·2	—	39	—	Nairn.
	a Aberdeen	65	8th	39	7th	57·7	44·3	50·5	- 1·2	60	0	1	0·12	- 0·31	42·0	- 1·4	34	- 1	Aberdeen.
	a Balmoral ..	64	8, 9, 12th	33	7th	61·4	40·6	50·3	+ 0·1	64	4	1	0·06	- 0·46	38·9	—	32	—	Crathes S.
	p Crieff	69	7th	36	6th	64·1	41·3	51·9	- 2·1	72	2	1	0·01	- 0·61	59·1	—	49	—	Balruddery
	a Leith	66	7th	42	6th, 7th	60·0	45·4	52·2	- 1·4	71	0	1	0·01	- 0·39	47·2	+11·3	40	+10	Edinburgh.
	a West Linton ..	62	7th	31	6th	57·4	39·0	47·6	- 3·1	52	8	1	0·01	—	*40·9*	—	*34*	—	*West Linton.*
	p Marchmont ..	67	7th	37	7th	58·1	41·1	49·0	- 2·5	53	3	1	0·18	- 0·35	46·3	+ 4·3	39	+ 4	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	65	8th	33	7th	58·7	42·1	49·8	- 2·2	55	0	2	0·34	- 0·13	37·5	—	32	—	Cockle Park.
	a Shields	63	8th	36	7th	56·0	41·9	48·5	- 3·5	46	0	4	0·12	- 0·31	*32·9*	- *0·4*	*28*	*0*	*Newcastle.*
	p Durham	68	7th	33	7th	59·5	42·0	50·1	- 3·0	57	0	2	0·02	- 0·40	38·4	- 1·1	33	- 1	Durham.
	p Rounton .. M	67	7th	35	7th	58 2	41·9	49·5	- 2·5	53	0	1	0·04	- 0·42	*	*	*	*	
	p Scarborough .. M	63	8th	44	6, 7, 11th	58·6	46·0	51·9	- 1·4	69	0	1	0·01	- 0·42	45·3	—	39	—	Scarborough.
	p York	66	7th	40	7th, 11th	60·7	44·0	51·8	- 3·4	69	0	3	0·06	- 0·41	33·3	- 7·1	29	- 6	York.
2. ENGLAND, N.E. — b, South.	*a* Spurn Head	61	8th	43	11th	55·9	46·9	51·1	- 2·9	64	0	3	0·07	- 0·27	*	*	*	*	
	a Lincoln	64	8th	35	7th	58·8	41·5	49·6	- 6·3	55	1	3	0·04	- 0·40	49 5	—	43	—	Skegness.
	a Fulbeck	64	7th	36	7th	58·7	42·2	49·9	- 5·3	55	0	2	0·07	- 0·37	31·4	—	27	—	Rauceby.
															53·3	—	*46*	—	*Lowestoft.*
	p Cromer	62	8th	43	8th	56·3	45·2	50·4	- 3·6	59	0	3	0·04	—	50·8	—	44	—	Cromer.
	p Hillington .. M	67	8th	35	7th	58·8	42·7	50·2	- 4·7	57	0	3	0·34	- 0·14	42·4	- 3·8	37	- 3	Hillington.
3. ENGLAND, E. — a, North.	*a* Yarmouth	65	8th	43	8th, 11th	57·0	45·3	50·7	- 3·5	61	0	3	0·36	- 0·04	55·6	—	48	—	Yarmouth.
	a Norwich	67	8th	36	7th	58·4	41·9	49·6	- 4·9	54	0	4	0·53	—	*	*	*	*	
	p Geldeston	67	8th	37	7th	57·6	40·9	48·7	- 5·9	52	3	4	0·39	- 0·03	38·9	-10·7	34	- 9	Geldeston.
	p Cambridge	64	8th, 9th	40	11th	58·1	43·6	50·4	- 5·7	59	0	4	0·19	- 0·28	33·1	- 13·9	29	- 12	Cambridge.
3. ENGLAND, E. — b, South.	*a Felixstowe*	*66*	*8th*	*38*	*11th, 12th*	*58·0*	*43·1*	*50·0*	- *5·0*	*56*	*0*	*4*	*0·81*	—	*38·8*	—	*34*	—	*Felixstowe.*
	a Clacton-on-Sea ..	67	8th	39	11th	57·4	44·4	50·5	- 4·2	60	0	4	0·50	—	32·3	—	28	—	Clacton.
	a Rothamsted ..	63	8th, 9th	38	8th, 11th	56·8	42·8	49·3	- 5·6	51	0	4	0·46	0·00	25·5	-20·3	22	-18	Rothamsted.
	a Shoeburyness ..	*68*	*8th*	*40*	*11th, 12th*	*58·7*	*45·3*	*51·5*	- *6·1*	*67*	*0*	*4*	*0·23*	- *0·13*	*34·9*	—	*31*	—	*Southend.*
	p Tottenham	67	8th	40	11th, 12th	58·2	44·4	50·8	- 5·5	62	0	4	0·68	—	26·3	—	23	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	65	7th	36	7th	58·7	41·7	49·6	- 3·3	54	1	3	0·05	- 0·47	43·6	—	37	—	Harrogate.
	a Bawtry	64	7th	33	7th	59·6	42·7	50·6	- 4·8	60	0	1	0·01	- 0·40	26·1	-12·1	23	-10	Worksop.
	p Buxton .. M	*61*	*7th*	*32*	*7th*	*58·6*	*41·2*	*47·0*	- *4·6*	*58*	*2*	*1*	*0·03*	- *0·68*	*18·4*	—	*16*	—	*Buxton.*
	a Nottingham ..	63	7th, 9th	36	7th	58·4	43·7	50·5	- 4·8	60	0	3	0·21	- 0·23	29·4	—	26	—	Nottingham.
	p Birmingham, Edgbsn	61	7th	41	6th	55·9	44·0	49·5	- 5·4	53	0	3	0·21	- 0·29	13·1	—	11	—	Birmingham.
	a Raunds .. M	65	9th	38	12th	58·6	42·4	49·9	- 5·4	55	0	2	0·31	—	*	*	*	*	
4. MIDLAND COUNTIES. — a, West.	*a* Oxford	63	8th	42	8th, 12th	57·4	44·7	50·6	- 5·4	60	0	4	0·45	0·00	21·6	-23·8	19	- 21	Oxford.
	a Cheadle .. M	61	7th	37	7th, 9th	56·1	41·3	48·2	- 5·4	46	2	3	0·41	- 0·13					Sheffield.
	p Shrewsbury	63	7th	36	7th	58·3	43·0	50·1	- 5·5	57	0	2	0·33	—	*	*	*	*	
	a Hereford .. M	65	8th	37	8th	59·3	43 8	51·0	- 4·9	63	0	1	0·14	- 0·37	*	*	*	*	
	a Cirencester	63	8th	41	8th	56·5	42·9	49·2	- 5·5	50	0	3	0·33	- 0·18	19·5	-27·5	17	- 24	Cirencester.
	a Bath	67	8th	38	8th	58·4	44·9	51·2	- 4·9	64	0	2	0·44	- 0·07	23·4	—	21	—	Bath.
															54·0	—	*48*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	65	8th	41	11th	58·1	44·7	50·9	- 5·6	62	0	4	0·23	- 0·22	23·9	-22·2	21	- 20	Kew.
	a Marlborough ..	65	8th	35	8th	58·2	41·7	49·4	- 4·8	53	1	3	0·12	- 0·38	17·4	-25·5	15	- 23	Marlborough.
	a Margate	66	8th	43	8th	58·2	47·1	52·3	- 3·2	72	0	3	0·14	- 0·25	46·7	+ 2·1	41	+ 2	Margate.
	a Wisley, Surrey ..	66	8th	37	11th	57·7	43·6	50·2	- 6·6	57	0	4	0·64	—	26·6	—	24	—	Wisley.
	a Swarraton .. M	65	8th	37	8th	57·7	43·0	49·8	- 4·8	55	0	3	0·43	- 0·07	38·0	—	34	—	Worthing.
	a Tunbridge Wells M	67	8th	36	11th	58·6	42·4	49·9	- 5·3	55	0	3	0·17	- 0·31	35·6	-11·7	32	-10	Tunbridge Wells.
	a Dungeness	61	9th	37	11th	57·7	44·0	50·4	- 4·9	59	0	2	0·28	- 0·04	38·7	—	34	—	Littlestone.
	p Hastings	62	9th	42	11th	57·8	45·4	51·2	- 4·6	64	0	3	0·12	- 0·28	*48·1*	- *6·0*	*43*	- *5*	*Hastings.*
	p Southampton ..	69	8th	41	8th	59·9	46·0	52·5	- 5·3	74	0	4	0·39	+ 0·45	23·7	-26·4	21	-23	Southampton.
	a Ventnor	63	9th	43	12th	60·0	47·7	53·4	- 3·1	80	0	3	0·35	- 0·06	41·0	- 7·5	37	- 7	Ventnor.
															47·3	- 4·1	42	- 4	Eastbourne.
LONDON	*a Westminster* ..	*68*	*8th*	*43*	*11th, 12th*	*58·1*	*45·1*	*51·3*	- *5·5*	*64*	*0*	*4*	*0·71*	+ *0·26*	*20·7*	- *18·6*	*18*	- *17*	*Westminster.*
	a Greenwich	*68*	*8th*	*38*	*11th*	*59·4*	*44·0*	*51·2*	- *5·9*	*64*	*0*	*3*	*2·71*	+ *0·26*	*25·4*	- *19·3*	*23*	- *17*	*Greenwich.*
6. — a, SCOTLAND. W. ..	*p* Laudale	65	12th	38	12th	59·1	43·8	50·9	- 2·8	62	0	1	0·02	- 0·82	*	*	*	*	
	a Poltalloch .. S	61	10th	36	10th	58·0	40·7	48·8	- 5·0	53	4	0	0·00	- 0·86	*	*	*	*	
	p Glasgow	64	10th	41	6th	59·8	44·9	51·8	- 1·6	69	0	0	0·00	- 0·57	50·5	+12·7	42	+11	Glasgow.
	p Rothesay .. S	64	6th, 10th	40	7th, 11th	60·7	45·0	52·3	- 1·4	72	0	0	0·00	- 0·66	*	*	*	*	
	a Kilmarnock ..	63	10th	32	11th	58·6	38·6	47·9	- 5·9	56	10	0	0·00	—	*33·5*	—	*28*	—	*Kilmarnock.*
	a Colmonell ..	62	10th	33	6th	58·7	43·1	50·4	- 3·5	59	0	0	0·00	- 0·57	*	*	*	*	
	p Dumfries ..	65	8th	37	6th	59·0	42·9	50·4	- 4·3	59	0	1	0·09	- 0·44	*	*	*	*	
	p Cally, Gatehouse S	68	7th	37	6th, 7th	62·5	39·9	50·4	- 3·2	68	6	1	0·33	- 0·63	*	*	*	*	
6. — b, ISLE OF MAN ..	*p* Douglas	59	7th	43	12th	56·2	45 3	50·4	- 2·9	59	0	0	0·00	- 0·59	57·4	+ 6·1	49	+ 5	Douglas.
																—		—	Hoylake.
7. — a, ENGLAND, N.W. ..	*p* Aspatria	62	7th	36	6th	59·5	41·2	49·7	- 3·6	57	2	0	0·00	- 0·54	44·9	—	38	—	Aspatria.
	p Newton Rigg ..	66	7th	32	7th	59·9	40·0	49·3	- 3·5	60	6	0	0·00	- 0·52	36·7	-10·8	31	- 9	Newton Rigg.
	p Stonyhurst	61	7th, 12th	37	7th	57·9	43·2	50·0	- 4·2	56	0	2	0·20	- 0·45	38·7	- 6·5	33	- 6	Stonyhurst.
	p Blackpool .. M	59	10th	35	7th	56·8	43·2	49·5	- 5·0	53	0	2	0·07	- 0·42	52·0	+ 5·8	45	+ 5	Blackpool.
	p M'nch'ster, Prestwich	62	7th	37	7th	57·1	42·9	49·5	- 4·7	53	0	1	0·08	- 0·52	*22·1*	- *16·8*	*19*	- *14*	*Prestwich.*
	a Liverpool (Bidston)	57	10th	42	7th	55·0	45·6	50·0	- 4·5	56	0	1	0·08	- 0·40	*42·7*	—	*37*	—	*Liverpool.*
7. — a, ENGLAND, N.W. ..	*a* Hawarden Bridge ..	60	12th	40	7th, 12th	56·5	44·3	50·0	- 5·7	56	0	1	0·06	- 0·38	*46·2*	- *3·4*	*40*	- *3*	*Southport.*
															45·6	—	*39*	—	*Rhyl.*
7. — b, NORTH WALES ..	*p* Llandudno .. M	60	7th	42	7th	56·7	46·8	51·4	- 3·6	66	0	2	0·13	- 0·34	50·0	+ 2·8	43	+ 2	Llandudno.
	a Holyhead	57	7th, 8th	46	6, 7, 8th	55·3	47·1	50·9	- 3·1	62	0	0	0·00	- 0·46	44·4	—	39	—	Aberdovey.
	p Bettws-y-Coed ..	60	7th, 10th	37	7th, 8th	57·6	43·0	49·8	- 4·6	55	0	2	0·09	—	36·4	—	32	—	Bettws-y-Coed.
															35·6	—	31	—	Aberystwyth.
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	63	7th	30	8th	58·9	40·0	48·8	- 4·9	56	6	2	0·09	—	34·4	—	30	—	Llangammarch Wells.
	a Pembroke	60	7, 8, 12th	45	7, 11, 12th	58·4	46·7	52·1	- 1·9	71	0	0	0·00	- 0·44	53·2	+ 1·2	47	+ 1	Pembroke.
	a Cardiff	66	8th	43	8, 9, 11th	59·1	44·3	51·2	- 5·5	64	0	2	0·11	- 0·44	*37·8*	—	*34*	—	*Cardiff.*
															48·1	- *9·1*	*38*	- *8*	*Tenby.*
8. — b, ENGLAND, S.W. ..	*a* Clifton	66	8th	44	8th	59·2	46·7	52·5	- 4·2	74	0	2	0·50	- 0·01	*25·5*	—	*23*	—	*Clifton.*
	a Shaftesbury .. M	65	8th	42	11th, 12th	58·6	44·4	51·0	- 2·4	63	0	2	0·53	0·00	*	*	*	*	
	a Arlington	62	8th	41	8th	58·7	44·4	51·1	- 2·5	64	0	3	0·14	- 0·54	49·2	- 2·5	44	- 2	Newquay.
	a Cullompton .. M	69	8th	40	8th	62·6	45·4	53·4	- 2·4	80	0	3	0·34	- 0·15	28·4	-18·3	25	-16	Cullompton.
	a Portland Bill ..	61	10th	46	12th	57·9	48·9	53·1	- 2·1	78	0	3	0·34	—	*49·3*	—	*36*	—	*Weymouth.*
	p Plymouth	69	8th	46	8th, 11th	61·7	48·4	54·6	- 2·1	88	0	2	0·38	- 0·10	46·2	- 4·5	41	- 4	Plymouth.
	p Falmouth	63	8th	47	12th	58·3	49·7	53·7	- 1·7	82	0	1	0·54	+ 0·02	51·0	- 3·2	46	- 3	Falmouth.
															45·8	- *7·0*	*41*	- *6*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	57	6th	46	6th, 7th	54·1	47·1	50·4	- 2·1	59	0	4	0·09	- 0·39	*	*	*	*	
	a Blacksod Point ..	59	6th, 9th	49	11th, 12th	57·1	50·0	53·3	- 0·4	79	0	2	0·02	- 0·58	*	*	*	*	
	p Markree Castle ..	62	6th	33	7th	58·3	44·0	50·7	- 2·3	61	0	2	0·03	- 0·60	38·2	- 2·3	33	- 2	Markree Castle.
	a Birr Castle	64	7th	36	7th	60·3	44·0	51·6	- 2·8	67	0	0	0·00	- 0·51	*33·5*	- *6·3*	*29*	- *6*	*Birr Castle.*
9. IRELAND, N. — b, East.	*p* Armagh	64	7th	39	7th, 12th	59·1	44·1	51·1	- 2·3	64	0	1	0·03	- 0·53	39·7	- 0·9	34	- 1	Armagh.
	a Donaghadee	56	7, 9, 10, 11	45	8th	55·4	47·7	51·3	- 2·4	65	0	0	0·00	- 0·52	*	*	*	*	
10. IRELAND, S. — a, East.	*p* Dublin, City	62	7th	42	7th	59·0	46·9	52·5	- 3·5	74	0	0	0·00	- 0·44	31·9	-14·4	28	-12	Phœnix Park.
	a Kilkenny	63	7th	40	7th	60·6	45·6	52·6	- 2·1	74	0	0	0·00	- 0·53	*	*	*	*	
	a Waterford	65	8th	43	7th	62·1	46·7	53·9	- 1·5	83	0	0	0·00	- 0·60	*	*	*	*	
10. IRELAND, S. — b, West.	*a* Birr Castle	64	7th	36	7th	60·3	44·0	51·6	- 2·8	67	0	0	0·00	- 0·51	33·5	- 6·3	29	- 6	Birr Castle.
	a Foynes	64	7th	41	7th, 8th	60·5	46·9	53·2	- 2·1	78	0	1	0·01	- 0 54	*	*	*	*	
	a Cahir .. .. M	65	7th	41	7th, 8th	61·3	45·3	52·7	- 2·2	75	0	0	0·00	—	*	*	*	*	
	a Killarney									0	0				*	*	*	*	
	a Valencia	61	7th	42	8th	59·4	48·0	53·3	- 1·8	79	0	2	0·33	- 0·40	44·9	- 0·6	39	- 1	Valencia.
	a Roche's Point ..	65	8th	44	7th, 12th	60·6	47·7	53·7	- 1·4	82	0	1	0·01	- 0·62	37·4	—	33	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	59	8th, 9th	49	11th	57·6	50·9	54·0	- 1·7	84	0	2	0·10	- 0·27	54·0	- 2·0	48	- 2	Scilly.
	a Jersey, St. Aubins ..	67	7th	48	6th	63·1	50·4	56·3	- 0·8	100	0	2	0·05	- 0·42	67·6	+11·6	61	+10	St. Heliers.
	a Guernsey	67	8th	48	12th	62·9	49·8	55·9	- 0·5	97	0	3	0·19	- 0·31	64·8	+ 6·1	58	+ 6	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 33·6 hrs. (- 12·3 hrs.), 35 % (- 11 %); Bournemouth, 39·0 hrs., 35 %; Bognor,* hrs., %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound	—	—	49·6	—
	— —				
	— —				
1.	Aberdeen	—	—	—	48·6
	Crathes	0	31	52·3	49·1
	Balmoral	2	30	—	—
	West Linton	1	28	—	—
	Marchmont	1	30	53·3	—
2.	Cockle Park	0	32	52·9	50·5
	Durham	1	30	—	—
	York	—	—	53·6	50·9
	Hull	0	32	54·7	50·3
	Lincoln	—	—	54·4	51·0
	Rauceby	0	31	56·0	52·2
3.	Norwich	0	32	—	—
	Yarmouth	—	—	57·1	54·7
	Lowestoft	0	37	56·2	52·8
	Cambridge	2	30	54·7	53·1
	Clacton-on-Sea	0	33	54·5	54·1
	Southend	9	36	55·3	—
	Tottenham	0	35	—	53·5
4.	Harrogate	0	31	51·2	50·0
	Huddersfield	1	30	53·3	48·9
	Buxton	1	28	51·6	48·7
	Sheffield				
	Nottingham	1	30	53·4	51·6
	Birmingham	0	33	48·8	48·4
	Oxford	0	—	—	—
	Hereford	1	29	—	—
	Cirencester	0	35	—	—
5.	Margate	0	39	55·1	53·2
	Greenwich	2	29	—	—
	Westminster	0	35	—	—
	Kew	1	29	53·9	52·2
	Canterbury	0	32	54·9	54·7
	Tunbridge Wells	1	30	56·0	—
	Wisley	0	34	54·3	53·3
	Worthing	0	36	56·5	53·7
	Portsmouth	0	36	56·4	54·9
6.	Glasgow	0	32	—	—
	Rothesay	—	—	—	51·0
	Colmonel	1	30	—	—
	Dumfries	—	—	—	—
	Douglas	0	39	—	—
7.	Aspatria	1	30	—	—
	Newton Rigg	2	27	54·4	50·1
	Burnley	1	26	52·1	49·0
	Southport	2	29	56·0	54·2
	Manchester City	0	32	53·2	52·0
	Bettws-y-Coed	0	35	51·6	50·0
8.	Llangammarch Wells	4	21	53·2	50·1
	Cardiff	0	33	55·0	52·6
	Clifton	0	40	—	—
	Bath	—	—	56·1	53·4
	Plymouth	0	37	56·6	—
9.	Armagh	1	29	56·6	52·7
	Markree	1	28	—	—
10.	Dublin, Trin. Coll.	0	33	55·7	53·2
11.	Guernsey, Brooklyn	0	44	58·6	55·3

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	48	48	48·0
	Kirkwall	54	53	53·8
	Wick	54	54	54·0
SCOTLAND, E.	Cromarty	52	48	50·1
	Pennan Bay	53	50	51·4
	Aberdeen, Cove Bay	49	47	47·9
ENGLAND, N.E.	Burnmouth, Berwick	50	48	48·9
ENGLAND, E.	Scarborough	50	47	48·3
	Shipwash Lightship	55	50	53·2
ENGLAND, S.E.	Margate‡	61	56	57·8
	Eastbourne‡	56	54	54·9
SCOTLAND, W.	Lamlash	54	52	53·2
ENGLAND, N.W.	Ballantrae	54	50	52·0
	Port Erin	53	50	50·7
ENGLAND, S.W.	Newquay	58	57	57·1
	Plymouth‡	56	54	54·7
	Salcombe	59	53	55·1
IRELAND, N.W.	Sheephaven	57	54	56·2
	Teelin	58	53	55·2
IRELAND, S.W.	Cleggan	58	53	55·4
	Seafield	59	54	56·4
IRELAND, E.				

‡ Only one observation each day.

Additional Observations in the Upper Air.

REGISTERING BALLOON ASCENTS.

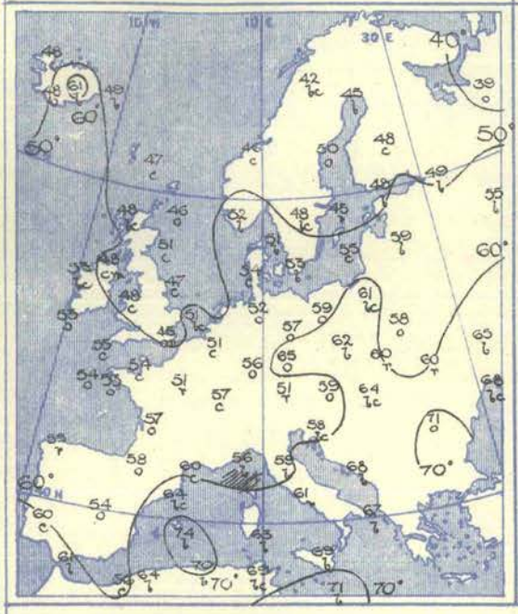
Height in Kilometres.	1 PYRTON HILL. April 1st, 5.0 p.m.			2 MANCHESTER, April 1st, 7.50 p.m.			3 DITCHAM PARK, PETERSFIELD. May 5th, 6.43 p.m.			4 DITCHAM PARK, PETERSFIELD, May 6th, 6.25 p.m.			5 DITCHAM PARK, PETERSFIELD. May 7th 6.29 p.m.			6 MANCHESTER. May 7th, 7.20 p.m.			Height in Kilometres.
	Pressure.		Temp.	Pressure.		Temp.	Pressure.		Temp.	Pressure.		Temp.	Pressure.		Temp.	Pressure.		Temp.	
	Mm.	Mgd.	A°	Mm.	Mgd.	A°	Mm.	Mgd.	A°	Mm.	Mgd.	A°	Mm.	Mgd.	A°	Mm.	Mgd.	A°.	
Ground	750	1·000	279	767	1.022	288·5	751	1·001	284	751	1·001	288	752	1·003	285	766	1·021	285·5	Ground
0·5	718	·958	275	725	·967	281·5	720	·960	280	720	·960	286	720	·960	285	725	·967	281	0·5
1·0	678	·904	269	680	·907	274·5	680	·907	282·5	679	·906	286·5	687	·916	283·5	680	·907	278	1·0
1·5	637	·849	268	645	·860	268	640	·853	281	640	·853	285	638	·851	284	640	·853	278·5	1·5
2·0	596	·795	265	600	·800	266	600	·800	277	602	·803	282	600	·800	283	600	·800	278	2·0
2·5	558	·744	262	560	·747	263	565	·753	274·5	567	·756	280	565	·754	282·5	565	·754	276	2·5
3·0	523	·697	260	525	·700	261	530	·707	271	535	·714	276·5	532	·710	281	533	·711	273	3·0
3·5	490	·653	256	495	·660	258	—	—	—	—	—	—	—	—	—	500	·667	270	3·5
4·0	458	·611	253	465	·620	255	468	·624	264	470	·627	268·5	472	·630	276·5	468	·624	266·5	4·0
4·5	428	·571	249	435	·580	252	—	—	—	—	—	—	—	—	—	440	·587	262	4·5
5·0	398	·531	245	405	·540	249	411	·548	256	415	·554	260	418	·558	269	413	·551	259	5·0
5·5	362	·483	242	375	·500	246	—	—	—	—	—	—	—	—	—	385	·514	257	5·5
6·0	346	·461	239	350	·467	242	359	·479	248·5	363	·484	252·5	367	·489	259·5	360	·480	254·5	6·0
6·5	322	·430	236	325	·434	239	—	—	—	—	—	—	—	—	—	335	·447	252	6·5
7·0	298	·398	232	305	·407	236	312	·416	237	318	·424	243	321	·428	250	315	·420	248·5	7·0
7·5	277	·369	227	285	·380	233	—	—	—	—	—	—	—	—	—	295	·394	245	7·5
8·0	257	·342	222	265	·354	229	270	·360	231·5	276	·368	234·5	280	·373	242	275	·367	241·5	8·0
8·5	238	·318	217	243	·324	226	—	—	—	—	—	—	—	—	—	255	·340	238·5	8·5
9·0	222	·296	217	225	·300	223	233	·311	222·5	239	·319	227	243	·324	233·5	240	·320	235·5	9·0
9·5	205	·274	219	210	·280	221	—	—	—	—	—	—	—	—	—	223	·297	233	9·5
10·0	190	·253	220	195	·260	219·5	200	·267	213·5	206	·275	220·5	210	·280	225	205	·274	230	10·0
11·0	163	·217	221·5	168	·224	218·5	170	·227	209·5	176	·235	214·5	181	·241	217·5	175	·234	225	11·0
12·0	139	·185	222	145	·194	219	145	·194	212·5	152	·203	212	154	·205	211·5	150	·200	219·5	12·0
13·0	111	·147	221	125	·167	221	123	·164	213	129	·172	208·5	132	·177	212	130	·173	220	13·0
14·0	102	·136	220	105	·140	220	105	·140	213	111	·147	208	112	·149	218	110	·146	222	14·0
15·0										95	·127	211·5	95	·107	219·5	95	·126	223	15·0
16·0										81	·108	214	82	·099	220	80	·106	224	16·0
17·0										69	·092	214				70	·93	224·5	17·0
18·0										59	·079	213				63	·84	224·5	18·0
19·0										50·5	·067	213							19·0

No. **1.**—Balloon fell at Dorking, distant 64 km., direction 315°. Wind observations with one theodolite. Uniform ascensional velocity 3·3 m.p.s. assumed. Lost in clouds after 7 minutes, then seen again at 9 minutes and finally lost at 10 minutes. Wind of nearly 10 m.p.s. from between 45° and 41° (N.E.). Mean Temperature Gradient (Ground to 8·9 km.) 0·72° per 100 metres. Lowest temperature, 216°A at 8·9 km.: 220°A at 11·5 km. Slight inversion at 1·1 km. Max. height 14·3 km. No. **2.**—Balloon fell at Stapleton, Leicestershire, distant 120 km., direction 146°. Mean Temperature Gradient (Ground to 8 km.) 0·73° per 100 metres No. **3.**—Balloon fell at Heywood, Westbury, Wilts, distant 94 km., direction W. 22° N. (292°). For wind observations see p. 172, No. 6. Mean Temperature Gradient (Ground to 10 km.) 0.71° per 100 metres. Sky clear save for a little cirrus in S.E. Strong east wind all day. Inversion 279°5 at 550 m. to 283° at 750 m. Lowest temperature 209° at 11·2 km. Greatest height 14·9 km., temp. 213°. No. **4.**—Fell on the Downs between Devizes and Marlborough, two miles from Beckhampton, distant 81 km., direction W. 35° N. (305°). For wind observations see p. 172, No. 8. Mean Temperature Gradient (Ground to 10 km.) 0·68° per 100 metres. Sky clear save for a little haze in N. about sunset. Very strong east wind. Inversion 285°.5 at 650 m. to 286°·5 at 1,000 m. Lowest temperature 208° from 13·2 to 14 km. There is some uncertainty about the heights amounting to about 1 km. at the highest point. No. **5.**—Balloon fell at West Wellow, Romsey, distant 46 km., direction W. 2° N. (272°). For wind observations see p. 172, No. 10. Mean Temperature Gradient (Ground to 10 km.) 0°·60 per 100 metres. Sky clear ; very strong east wind. Inversion 283° at 1.100 m. to 285° at 1,300 m. Lowest temperature 209° at 12·6 km. No. **6.**—Balloon fell at Warrington, distant 26 km., direction 245°. Meau Temperature Gradient (Ground to 8 km.) 0·55° per 100 metres. Temperature inversion 1·2 km. 278° (5°c), 1·6 km. 279° (6°c).

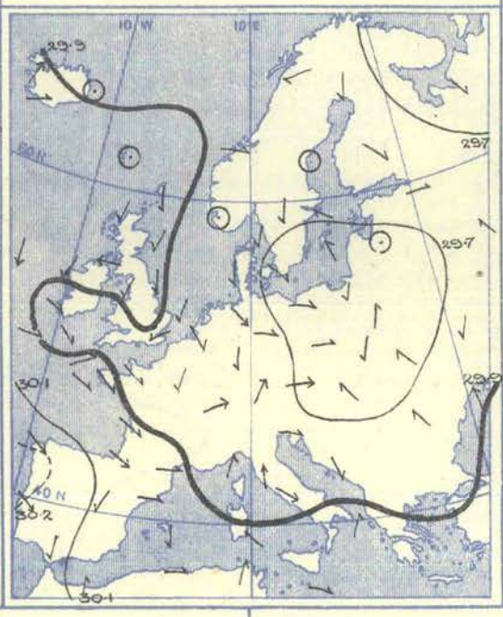
NOTE.—For particulars of ascents made from Pyrton Hill on May 6th and 7th, see p. 156 (No. 19).

Sunday, 6th June, 1909.

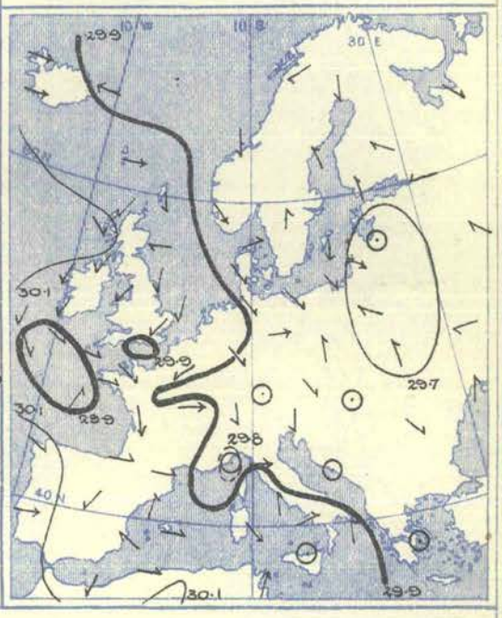
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather fair or fine at some of our own stations and in isolated places on the Continent, bright and clear on the southern shores of the Mediterranean; dull and rainy over the south-east of England, the north of France, and at many stations in central Europe. Heavy rain, with thunderstorms locally, on the south coast of England during day; very heavy rain, 2·6 ins., also reported at Bilbao, measurements elsewhere mostly slight.

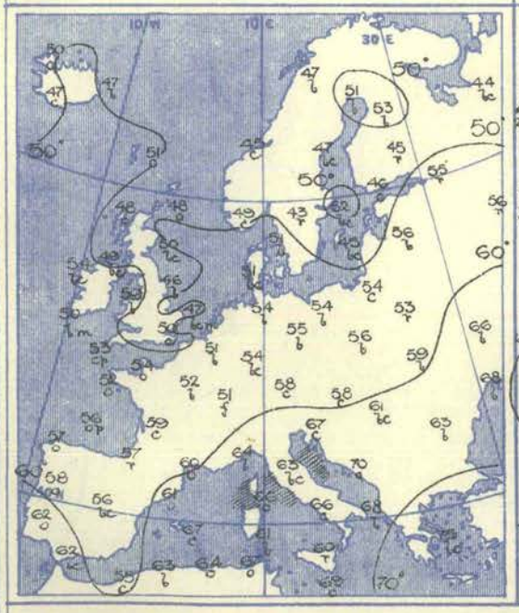
Temperature fallen over central England and in most parts of western and central Europe, risen at most of the Russian stations and over the Mediterranean generally. Morning readings ranging from 39° at Archangel, and below 50° over the larger part of Scandinavia and Britain, to 60° or above over south-eastern and southern Europe, and to 70° or a little higher at some Mediterranean stations. Maxima during day as low as 50° to 55° at many English stations, between 70° and 75° over southern Europe generally, above 80° at some stations, and above 90° at Biskra and Laghouat (Algeria).

Wind generally Northerly (North-East to North-West) over north-western and western Europe, strong in force at Biarritz, moderate or light elsewhere. Very variable over eastern, central, and southern Europe. Very little change later, but fresh North-Westerly gale springing up at Memel.

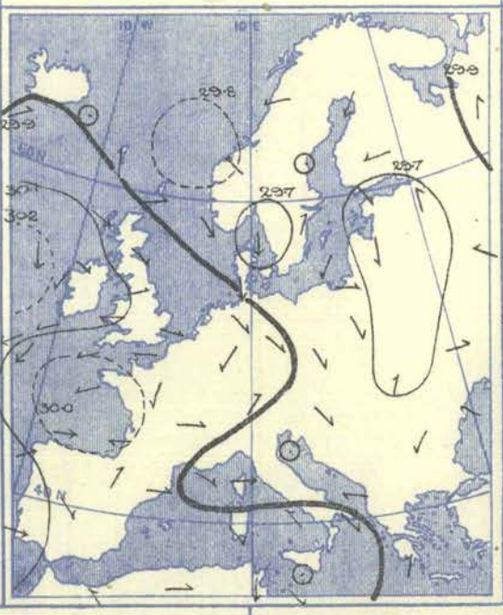
Barometer at 7 a.m. highest, 30·2 ins. and upwards, on the Atlantic, between the coast of Spain and the Azores. Lowest, below 29·7 ins., in a large shallow depression over the Baltic, Germany, and western Russia, and also in another system over the White Sea; below 29·9 ins. over the southern parts of Ireland and England. Steady rise of the barometer over the British Islands during day.

Monday, 7th June, 1909.

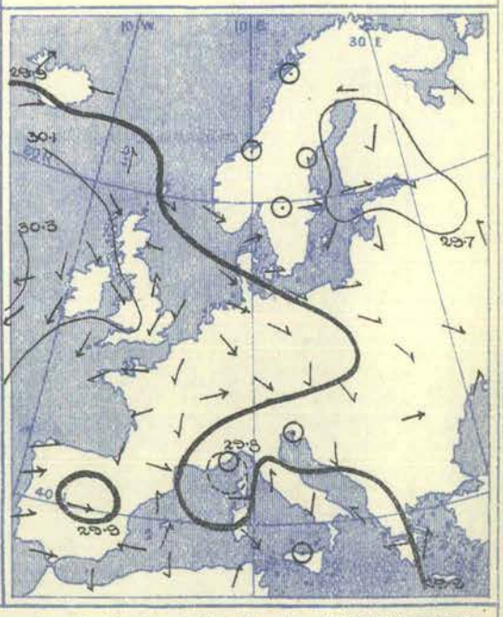
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater part of the British Islands and the Continent, rain locally in northern Russia and at Karlstad, and also over the Bay of Biscay. Slight showers during day at some of our northern stations and at Scilly, and heavy rain in different parts of the Continent, 1·1 in. at Erhastellic, 0·7 in. at Pesaro and Belfort, 1·1 in. at Moscow, 1·6 in. at Lesina, and 1·7 in. at Kuopio.

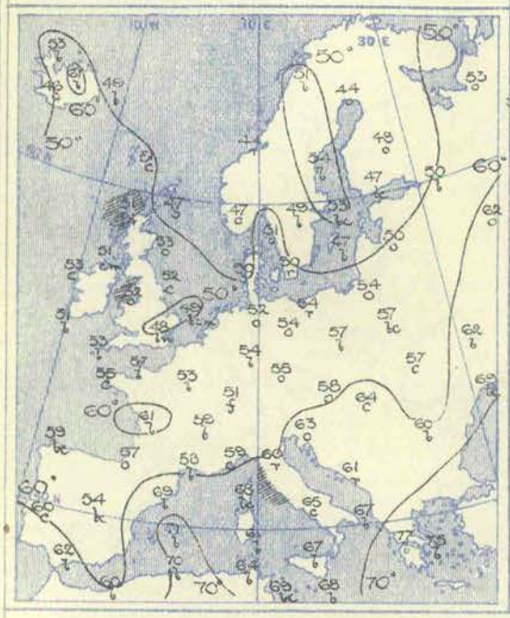
Temperature risen a little in most parts of the British Isles, changed irregularly elsewhere, but fallen in the Baltic Provinces, Poland, and Austria. Morning readings ranging from below 50° over the greater part of northern Europe and a large part of Britain to above 60° over the south-eastern and southern countries, and to 75° at Athens. Below 60° all day in many parts of these Islands, but reaching 66° at Leith and 63° at Nottingham.

Wind generally light or moderate from the Northward (North-West to North-East) over the British Islands; light and variable over the Continent as a whole, but Northerly moderate to strong in Denmark and southern Norway, and North-Westerly moderate in Portugal. Wind becoming more variable over Great Britain during day, and Northerly wind in Scandinavia falling light; not much change elsewhere.

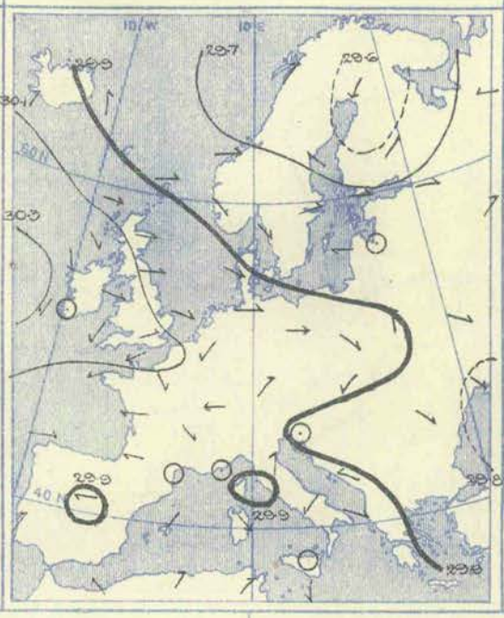
Barometer in morning highest, 30·2 ins. and upwards, on the Atlantic to the westward of Ireland. Lowest, 29·7 ins. and less, in two depressions, one over the Baltic Provinces and western Russia, and the other over south of Scandinavia; 29·8 ins. and less between Færöe and the coast of Norway, 29·9 ins. and less over the south of France and northern Italy, and 30·0 ins. in a fifth low pressure system over the Bay of Biscay and the mouth of the Channel. Scandinavian and Russian depressions moving Eastwards during day, that over southern Europe growing deeper and remaining stationary, while the one on the Bay of Biscay scarcely moved.

Tuesday, 8th June, 1909.

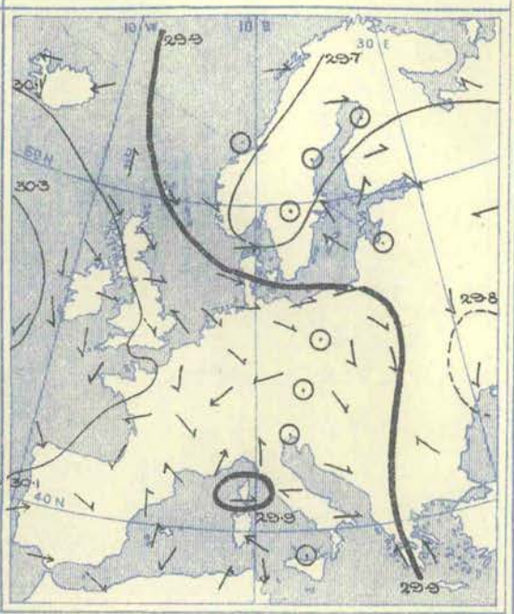
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over England, the south of Ireland, France, Germany, and south-eastern Europe, cloudy or dull over Scotland and many parts of northern and southern Europe, with rain in places. Remaining fine all day in Great Britain and the nearer parts of the Continent, but rain falling in scattered localities elsewhere. Largest amount, 0·7 in., at Lugano.

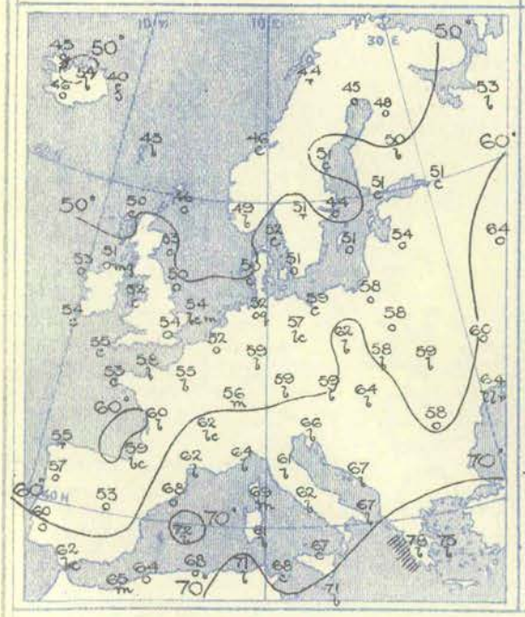
Temperature risen somewhat at most of our own stations and over the greater part of the Continent, fallen in the extreme northern and extreme southern parts of Europe. Morning readings ranging from below 50° in Lapland, and about 50° over England generally, to between 60° and 70° over the southern countries generally, and to 75° and upwards in Greece. Rising during day to between 65° and 70° in many parts of southern England, to between 70° and 80° over the southern parts of the Continent, and to 93° at Biskra (Algeria).

Wind at 7 a.m. Southerly or South-Westerly in Iceland, North-Westerly or Westerly over the British Islands and the North Sea, light or moderate generally, but fresh at Wick; mostly Easterly over France and the Peninsula, but variable over eastern Europe and the Mediterranean. No change of importance during day.

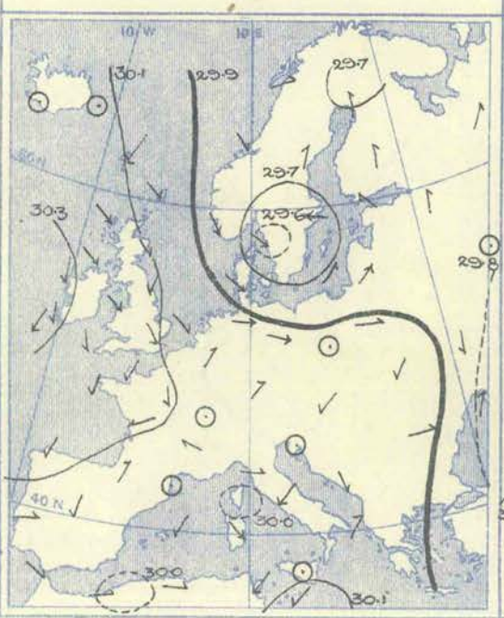
Barometer highest, 30·3 ins. and upwards, on the Atlantic to the westward of Ireland. Lowest, 29·6 ins. and less, over Lapland, 29·8 ins. and less over the Black Sea, and 29·9 ins. and less in two small depressions lying over central Spain and Corsica respectively. Very little change occurring during day.

Wednesday, 9th June, 1909.

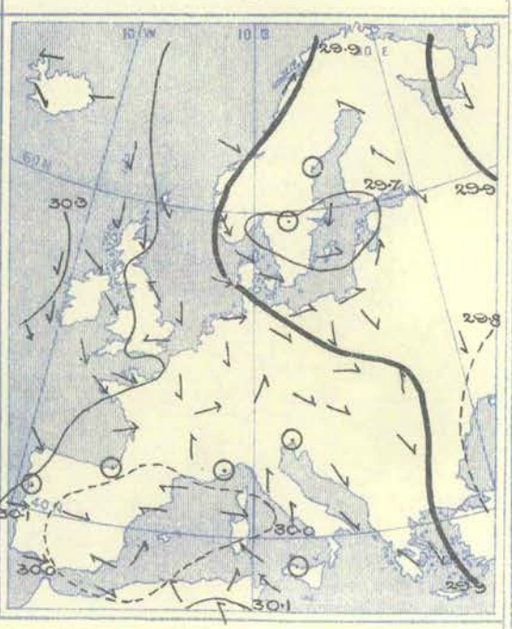
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast in these Islands, Scandinavia, and the Baltic region, with rain at Bodö, Karlstad, and Memel. Fair to fine and bright in most other parts of our area, but rainy at Corunna and Aumale, and a thunderstorm prevailing at Odessa. Very heavy rain later in the south of Russia and also in Algeria, and heavy rain, with thunder and lightning, at some stations in the west of France. Sky continuing cloudy or dull in most parts of this country.

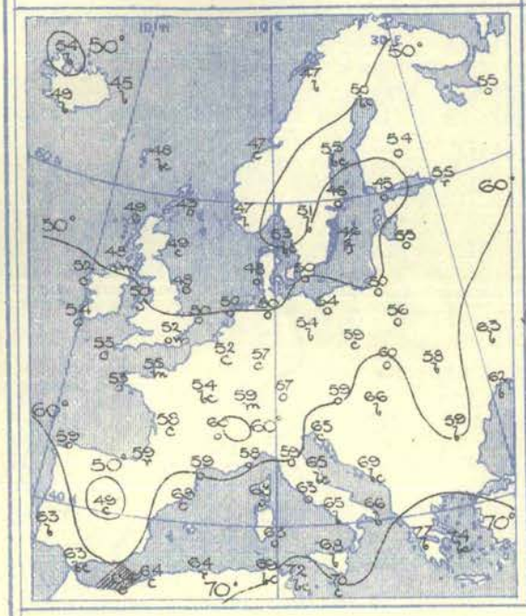
Temperature continuing low over the United Kingdom and its neighbourhood. Morning readings about 50° over northern Russia and Scandinavia, a little above it in these Islands and the Netherlands, above 60° over the southern half of Russia and the Mediterranean region, and as high as 78° at Patras. Maxima during day below 60° over a large portion of this country, but above 70° in nearly all places over the southern half of the Continent, about 80° in some localities, and 88° at Athens.

Wind in morning showing a well-defined cyclonic circulation around Scandinavia and its vicinity, the North-Westerly current blowing strongly in Norway and Denmark. A light to moderate breeze mainly from the Northward prevalent over these Islands, and light to moderate breezes from rather variable quarters over the central and southern countries. Wind increasing to a gale at Skudesnaes by evening, and becoming more variable in direction over this country.

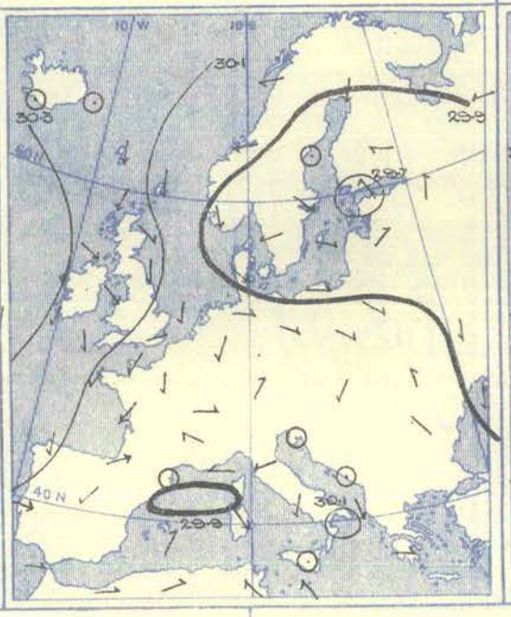
Barometer in morning ranging from above 30·3 ins. in an anticyclone off the west of Ireland to below 29·6 ins. in a depression having its centre over the Kattegat. Pressure very uniform over the south and east of our area. Some local irregularities appearing by evening over these Islands and France, and main depression undergoing some modification in form and extending eastwards towards the Gulf of Finland. Very little change occurring within the high pressure system.

Thursday, 10th June, 1909.

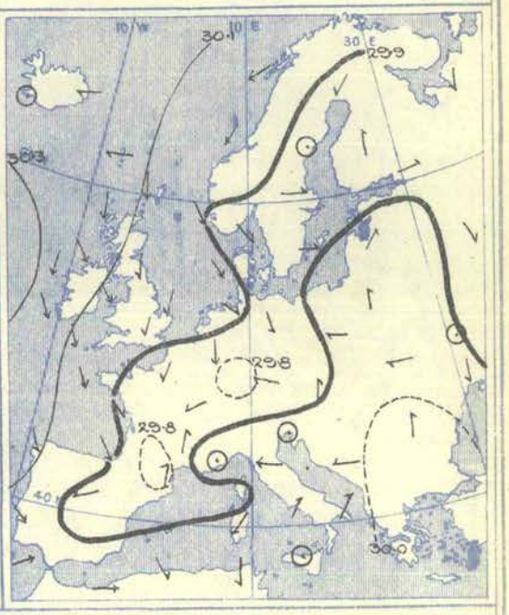
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright over a considerable portion of the Mediterranean area, and in some localities elsewhere, but very cloudy or overcast as a whole, with rain at Algiers, Cape Sicié, Biarritz, Clacton-on-Sea, and St. Petersburg. Some showers later in the eastern parts of Britain, and some heavy falls in France, northern Italy, central Europe, and Russia. Thunderstorms occurring in several French localities.

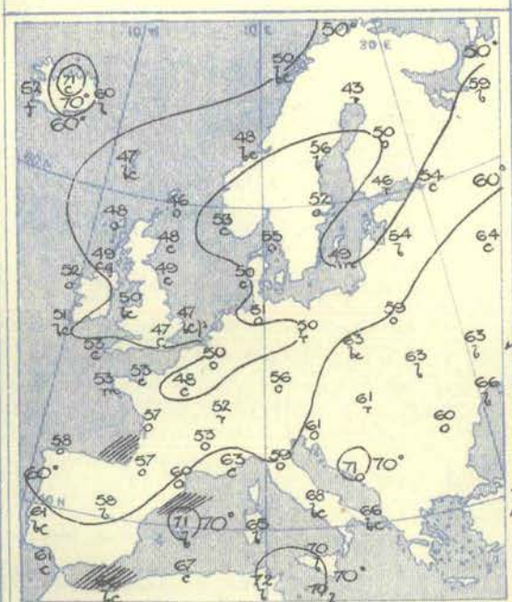
Temperature low for time of year except in far south and south-east. Morning readings ranging from above 70° in Greece to below 60° over nearly all the mainland of the Continent, and to below 50° in various parts of these Islands and Scandinavia, and also at Madrid. Maxima during day below 60° in nearly all parts of this country and also in North Germany, but between 65° and 75° in all the more southern parts of France, and between 70° and 80° over a considerable portion of the Mediterranean region.

Wind in morning light to moderate from the Northward over this country and the adjacent part of the Continent, and light and variable over the central countries. A cyclonic circulation prevailing over Scandinavia and Finland, the North-Westerly current blowing strongly in places. No change of importance during day.

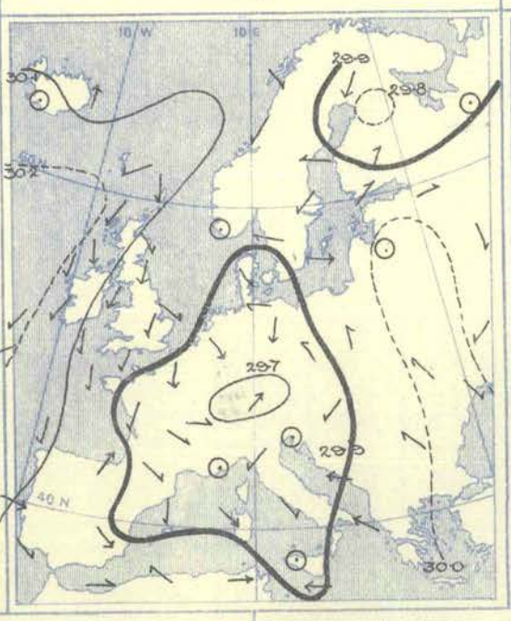
Barometer in morning above 30·2 ins. over Ireland, the west of Scotland, and the adjacent portion of the ocean; below 29·9 ins. in a depression off the south of France, and below 29·7 ins. in a more important system over the Gulf of Finland. Pressure extremely uniform throughout the central countries. Little modification occurring in the general distribution of pressure during day. Northern disturbance apparently dispersing, but other small systems appearing in different parts of our area.

Friday, 11th June, 1909.

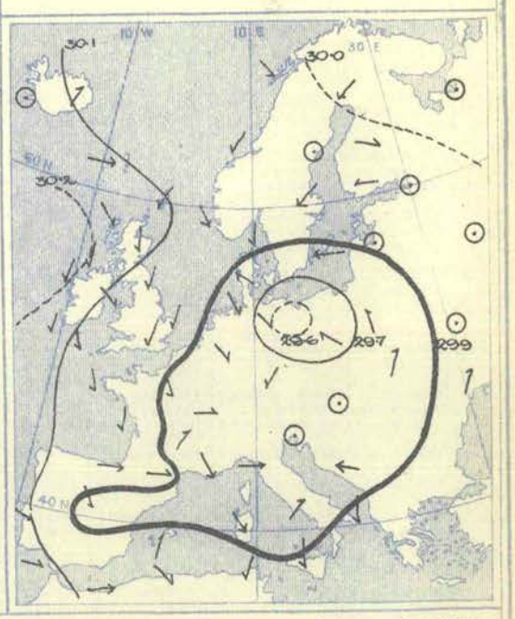
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled, and cloudy over the major portion of our area, and rainy or showery in the south of England, the central countries of the Continent, and in the north of Sweden. Fair to fine on most shores of the Mediterranean. Slight rain later in many parts of England, and considerable or heavy falls in most Continental regions—more than an inch in many places, and more than 1·5 in. at Lugano. Thunderstorms occurring in the western and some of the central departments of France, and severe earthquake shocks in the south.

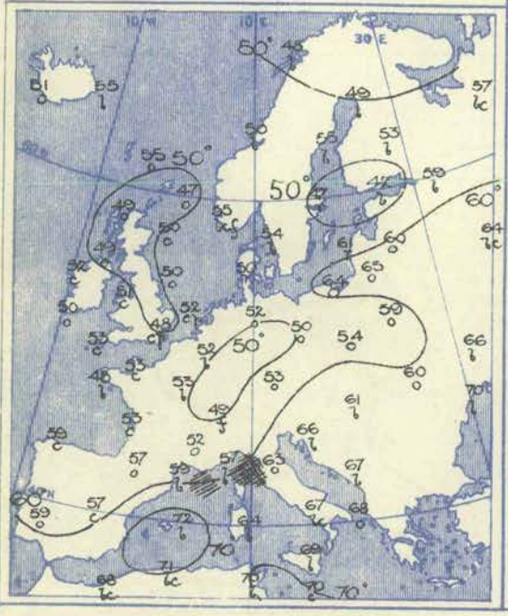
Temperature fallen in France and central Europe. Morning readings below 50° in many parts of this country and northern France, and very little above it in Germany; above 60° over a large portion of Russia and the south of Europe, and above 70° at Palma and Tunis. Maxima during day below 55° over the greater portion of these Islands, and below 60° in several parts of France and Germany. Above 70° in Austria and southern Europe generally, and above 80° at a few stations.

Wind in morning showing an extensive cyclonic circulation around central Europe, and a smaller movement in the far north. A moderate to light Northerly current prevailing over these Islands and the Bay of Biscay, but a high wind from South-West blowing at Biarritz, and a strong Westerly breeze at Toulouse. Little change during day; a strong North-West breeze setting in at Cape Sicié by evening.

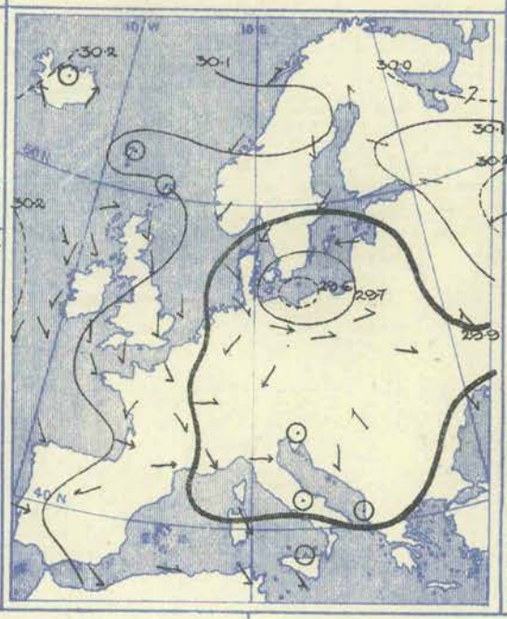
Barometer in morning above 30·2 ins. off the west coast of Ireland; below 29·8 ins. in a depression over Finland, and below 29·7 ins. in a more important system over Austria. Gradient generally slight, but irregular. Main depression moving northwards to Germany and increasing somewhat in intensity during day, but no important change occurring in the general distribution of pressure. Barometer remaining almost stationary in these Islands.

Saturday, 12th June, 1909.

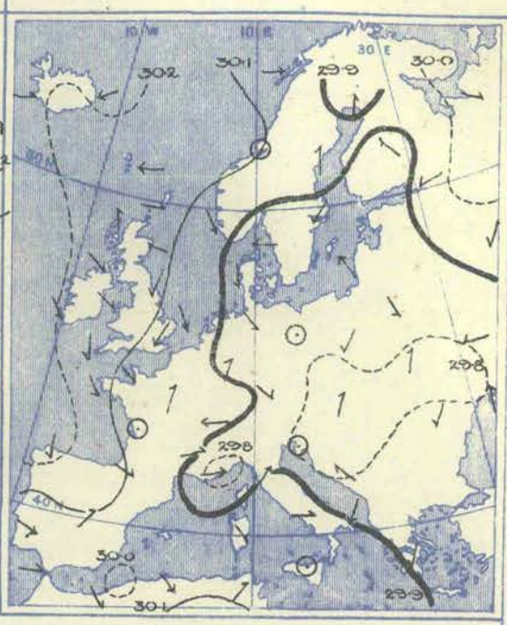
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning showery or rainy over a considerable portion of England and the Baltic region, and rain falling at Toulouse and Lugano also. Fair or fine over our area generally. Some heavy rain during day in the south-east of England, as much as 0·57 in. in London, and large or considerable falls in many Continental regions. More than an inch in Switzerland, and about 1·5 in. at Lugano. Thunder at some French stations as well as at Oxford.

Temperature changed little generally; fallen at most stations in central Europe. Morning readings below 50° at most places in these Islands and in a few French and German localities; above 60° in East Prussia and over the greater part of the Mediterranean region, and about 70° in places. Maxima during day below 55° at some English stations, and low for the time of year in Germany. Thermometer rising to above 70° over the southern countries, and to about 80° at a few places.

Wind in morning mainly Northerly and light in force over the United Kingdom, and light to fresh or strong from between North-West and West over southern Europe and the Mediterranean. A light to moderate cyclonic circulation prevailing over the Baltic and the surrounding regions. Little change as a whole during day; increasing to a high wind from South-West at Leghorn.

Barometer in morning above 30·2 ins. in central Russia and also on the Atlantic some distance to the west of Ireland. Below 29·6 ins. in a well-marked depression centred over North Germany, and relatively low in local irregularities in Italy, France, and other southern districts. No important change in the general distribution occurring during day. Pressure increasing slightly over these Islands, France, and the Icelandic region.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	June 3rd, 11.11 a.m. to 4.30 p.m.	Aldershot.	Temperature Humidity .. Wind	285° 90%		281° 100% —°, 18	276° 100% —°, 18				275° 90% —°, 18	1,100	Kite at about 1,000 m. for 4 hours. No temp. change. A few irregular falls of 20% in the humidity.
2	June 6th, 11.15 a.m. to 12.25 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	284° 95% 135°, 5	282·5° 95% 135°, 8	280° 95% 140°, 9					280° 95% 140°, 9	600	Overcast, lower clouds just reached, rain at intervals.
3	June 8th, 9.30 a.m. to 11.59 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281° 95% 304°, 4	280° 97% 299°, 7	279° 97% 297°, 8	277° 96% 295°, 12	289° 66% 302, 12			283° 44% 303°, 11	1,750	Overcast and dull. Gentle breeze. Nimbus 10 at 600 m. Temp. inversion at 1,000 m.
4	June 8th, 9.59 a.m. to 12.0 noon.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	288·5° 70% 290°, 5	287·5° 70% 290°, 9	280° 80% 290°, 10					285° 85% 290°, 10	660	Light variable wind between 290° and 315°. Convection currents. Clouds not reached.
5	June 9th, 1.4 p.m. to 4.10 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 84% 270°, 4	282° 87% 270°, 6	281° 88% 270°, 7	277° 95% 299°, 8				277° 95% 299°, 8	1,000	Overcast and dull. Gentle breeze. Nimbus 10.
6	June 10th, 4.40 p.m. to 5.14 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282° 70% 40°, 4	280° 72% 36°, 8	279° 72% 35°, 10					276° 71% 39°, 11	670	Overcast and dull. Gentle breeze. Nimbus, Cu. and A.-Cu. 9.
7	June 11th, 11.40 a.m. to 12.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	280° 79% 11°, 4	279° 82% 16°, 7	278° 83% 18°, 8					275° 88% 30, 14	800	Overcast and dull. Gentle breeze. Cu.-N. and Cu. 10.
8	June 11th, 5.49 p.m. to 7.25 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	280° 76% 22°, 5	279° 76% —, 7	273° 75% —, 9	274° 72% —, 10				274° 71% —, 10	1,100	Overcast and dull. Gentle breeze. N. and A.-Cu. 10.
9	June 12th, 11.10 a.m. to 11.17 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind ..	281° 69%	—° —% 7°, 4	—° —% 7°, 9	—° —% 14°, 5	—° —% 16°, 5			—° —%	1,500	Overcast, dull. Gentle North breeze. Cu. 9 at 1,500 m. Observations by Pilot balloon. Fine later.
10	June 12th, 12.10 p.m. to 12.50 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	284° 85% 360°, 3		279° 95% —°, 8					287° 95% —°, 8	600	Overcast, Alt.-Cu. Little low cloud not reached. Heavy rain squall at 2 p.m.

APPARATUS USED IN THE KITE ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10
No. of Kites	—	2	2	1	1	1	1	1	—	1
Area of Surface (sq. metres) ..	—	9	15	7	7·5	7·5	7·5	7·5	—	7
Capacity of Balloon (cub. metres)	—	—	—	—	—	—	—	—	—	—
Length of Wire (metres)	—	900	2,200	800	900	700	700	—	—	900

63, Victoria Street, London, S.W. *June 16th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 24. TWENTY-FOURTH WEEK, SUNDAY JUNE 13TH TO SATURDAY JUNE 19TH, 1909. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—General Remarks.

Weather.—Over the United Kingdom generally the weather was dry, and in Scotland and the western counties of England it was often bright, but in the eastern and central parts of England the sky was mostly cloudy or overcast. Local thunderstorms were experienced in the south of England on Wednesday.

Temperature was slightly above the average in Ireland, but more than a degree below it in most parts of Great Britain. The highest of the maxima were recorded on somewhat irregular dates, and ranged from 73° in Scotland E., Scotland W., and England S.W. to 70° in England E. and the English Channel. The lowest of the minima occurred generally on the 13th, and varied from 30° in England S.W. (at Llangammarch Wells on the 14th) and 31° in Scotland E. to 39° in Ireland S. and to 42° in the English Channel. Frost was recorded on the grass in several localities, the lowest readings reported being 23° at Crathes and Llangammarch Wells, 25° at Birmingham, and 28° at Newton Rigg and West Linton.

Mean Temperature of the Sea.—Except on the east and south-east coasts of England the temperature of the water was higher than it was during the corresponding week of last year. The actual values ranged from 57°·7 at Margate and Newquay and 57°·3 at Seafield to 49°·2 at Burnmouth and to 48°·1 at Lerwick.

Rainfall amounted to considerably less than the average in all districts. At several stations in England the week was quite rainless.

Bright Sunshine exceeded the average in the east and west of Scotland and the north-west and south-west of England, as well as in Ireland N. and the English Channel. Elsewhere, however, it was below the normal. The percentage of the possible duration ranged from 65 in the English Channel, 56 in Scotland W., and 55 in England N.W. to 26 in England N.E. and to 24 in England E.

Barometer and Wind.—During the greater part of the week the barometer was high over the Atlantic and low over Denmark and the Baltic region, and the general current of air flowing over this country was consequently from the Northward. Towards the end of the period, however, the oceanic high pressure system moved gradually to the Bay of Biscay and France, while depressions began to affect the north and north-west of these Islands, so that the wind backed to North-West, and eventually to between West and South-West.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 180.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Deficient	Deficient	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Light	Moderate	Light	Very light	Light	Light	Light	Light	Light	Light	Light	Nought
	Sunshine ...	Moderate	Abundant	Scanty	Scanty	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 2 weeks from June 6th, 1909.	Warmth ...	0 * 1	0 * 1	0 * 2	0 * 2	0 * 1	0 * 2	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1
	Rainfall ...	0 * 2	0 * 1	0 * 2	0 * 1	0 * 1	0 * 1	0 * 2	0 * 2	0 * 1	0 * 2	0 * 2	0 * 2
	Sunshine ...	0 * 0	1 * 0	0 * 1	0 * 2	0 * 1	0 * 1	1 * 0	1 * 0	1 * 0	0 * 0	0 * 1	1 * 0

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	5 * 1	4 * 2	5 * 5
	Rainfall ...	3 * 5	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5

7978 450 Wy. & S. Ltd. 6—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-FOURTH WEEK—June 13th to June 19th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	71	37	59·4	45·8	52·1	− 0·1	71	− 2	0	− 1	3	− 1	0·26	−0·36	38	− 1	30	− 1
Eastern																		
1. SCOTLAND, EAST	73	31	62·5	43·4	52·2	− 1·3	71	− 10	0	0	3	− 1	0·24	−0·26	53	+ 12	44	+10
2. ENGLAND, N.E.	71	34	61·4	45·7	53·0	− 1·4	77	− 10	0	0	2	0	0 09	−0·32	30	− 13	26	−11
3. ENGLAND, EAST	70	40	61·8	47·9	54·4	− 1·7	87	− 12	0	0	1	− 2	0·04	−0·49	28	− 18	24	−15
4. MIDLAND COUNTIES	72	37	65·0	45·7	54·7	− 1·5	89	− 10	0	0	2	− 1	0·09	−0·37	38	− 4	33	− 4
5. ENGLAND, S.E.	71	36	64·6	47·9	55·7	− 1·5	96	− 10	0	0	1	− 2	0·08	−0·39	41	− 7	36	− 6
Western																		
6. SCOTLAND, WEST	73	34	64·2	44·9	53·9	− 1·1	83	− 8	0	0	3	0	0·25	−0·39	66	+ 21	56	+17
7. ENGLAND, N.W.	71	34	63·5	46·4	54·3	− 1·4	86	− 10	0	0	2	− 1	0·17	−0·30	64	+ 18	55	+15
8. ENGLAND, S.W.	73	30	64·7	48·0	55·8	− 0·7	97	− 5	0	0	2	− 1	0·19	−0·35	62	+ 14	54	+12
9. IRELAND, NORTH	71	36	62·6	48·6	55·1	+ 0·2	92	+ 3	0	0	3	− 1	0·23	−0·37	42	+ 1	36	+ 1
10. IRELAND, SOUTH	72	39	65·2	50·8	57·5	+ 1·2	109	+ 9	0	0	2	− 1	0·08	−0·48	44	− 2	38	− 2
11. ENGLISH CHANNEL	70	42	63·9	51·0	57·0	− 0·4	105	− 2	0	0	0	− 4	0·00	−0·41	73	+ 16	65	+15

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 2 Weeks, June 6th to June 19th, 1909.

0. SCOTLAND, NORTH	71	35	*	*	*	*	122	− 18	0	− 2	5	− 2	0·30	−0·88	73	− 5	30	− 2
Eastern																		
1. SCOTLAND, EAST	73	31	*	*	*	*	127	− 28	0	− 1	4	− 2	0·30	−0·65	100	+ 16	41	+ 7
2. ENGLAND, N.E.	71	33	*	*	*	*	134	− 33	0	0	4	− 1	0·18	−0·67	69	− 18	30	− 8
3. ENGLAND, EAST	70	35	*	*	*	*	144	− 49	0	0	5	− 1	0·43	−0·63	66	− 27	29	−12
4. MIDLAND COUNTIES	72	33	*	*	*	*	145	− 49	0	0	4	− 1	0·35	−0·59	63	− 23	27	−10
5. ENGLAND, S.E.	71	35	*	*	*	*	159	− 49	0	0	4	− 2	0·42	−0·55	75	− 20	33	− 9
Western																		
6. SCOTLAND, WEST	73	32	*	*	*	*	142	− 33	0	0	4	− 2	0·27	−0·95	120	+ 28	51	+12
7. ENGLAND, N.W.	71	32	*	*	*	*	142	− 43	0	0	3	− 3	0·24	−0·67	107	+ 12	46	+ 5
8. ENGLAND, SW.	73	30	*	*	*	*	168	− 31	0	0	4	− 2	0·49	−0·55	105	+ 8	46	+ 4
9. IRELAND, NORTH	71	33	*	*	*	*	158	− 15	0	0	4	− 3	0·26	−0·90	81	− 2	35	− 1
10. IRELAND, SOUTH	72	36	*	*	*	*	185	− 10	0	0	3	− 3	0·12	−0·99	81	− 10	35	− 4
11. ENGLISH CHANNEL	70	42	*	*	*	*	199	− 10	0	0	2	− 5	0·11	−0·74	135	+ 23	61	+10

THE YEAR.—Aggregates, &c., for the Period of 24 Weeks, January 3rd to June 19th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	551	− 37	535	− 22	108	− 3	16·73	−5·29	570	− 2	28	0
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	605	− 81	673	+ 53	91	+ 1	14·56	+2·35	644	− 8	31	0
2. ENGLAND, N.E.	81	14	*	*	*	*	732	+ 13	580	+105	78	− 4	9·53	+0·20	726	+ 88	35	+ 2
3. ENGLAND, EAST	82	12	*	*	*	*	813	− 71	554	+ 33	80	− 1	8·56	−0·82	830	+102	41	+ 5
4. MIDLAND COUNTIES	82	8	*	*	*	*	865	− 48	642	+109	72	− 7	9·16	−1·49	749	+ 97	37	+ 5
5. ENGLAND, S.E.	82	0	*	*	*	*	861	−114	482	+101	75	− 2	10·32	−0·26	892	+166	44	+ 8
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	729	− 38	445	+ 20	87	− 8	17·79	−1·25	725	+ 60	35	+ 3
7. ENGLAND, N.W.	79	10	*	*	*	*	779	− 30	466	+ 80	80	− 7	12·17	−1·03	827	+161	40	+ 8
8. ENGLAND, S.W.	81	7	*	*	*	*	853	−111	390	+ 89	82	− 4	13·00	−2·12	851	+118	42	+ 6
9 IRELAND, NORTH	72	14	*	*	*	*	832	− 1	315	− 30	103	+ 1	14·29	−0·83	656	+ 12	32	+ 1
10. IRELAND, SOUTH	76	15	*	*	*	*	1010	− 4	265	+ 6	97	+ 5	15·61	−1·02	741	+ 28	36	+ 1
11. ENGLISH CHANNEL	78	25	*	*	*	*	1161	+ 33	151	+ 42	80	−14	12·17	−0·60	999	+124	49	+ 6

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **R** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.				Names of Stations.
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N.	*p Balta Sound* S	*57*	*17th*	*42*	*19th*	*52·5*	*44·7*	*48·3*	—	*44*	*0*	*3*	*0·15*	—	*28·1*	—	*32*	—	*Balta Sound.*
a, Islands.	*a* Sumburgh Head ..	55	17th	43	17th, 19th	51·9	44·7	48·1	− 0·6	43	0	3	0·06	− 0·37	32·7	− 3·7	26	− 3	Deerness.
	a Stornoway	60	18th	45	13, 14, 17th	58·4	46·7	52·1	+ 0·6	71	0	4	0·35	− 0·18	33·0	− 10·2	26	− 8	Stornoway.
	a Castlebay, Barra Isd.	*57*	*13,14,16,17,18*	*45*	*16th*	*56·6*	*48·1*	*52·1*	− *2·3*	*71*	*0*	*3*	*0·42*	—	*31·5*	—	*28*	—	*Castlebay.*
	a Wick	61	18th, 19th	40	13th	58·0	45·0	51·1	− 0·4	64	0	6	0·47	+ 0·04	*	*	*	*	
b, Mainland.	*p* Strathpeffer	67	13th	41	14th	62·9	46·6	54·2	+ 0·9	85	0	3	0·08	− 0·35	41·3	+ 3·8	34	+ 3	Strathpeffer.
	p Glencarron .. S	69	14th	40	14th	60·2	45·8	52·5	+ 0·5	74	0	3	0·47	− 0·47	*	*	*	*	
	p Fort Augustus S	66	16th	37	13th	61·5	45·8	53·1	0·0	78	0	1	0·10	− 0·36	43·0	+11·6	35	+10	Fort Augustus.
	p Fort William S	71	14th	38	13th	62·9	46·1	53·9	− 0·4	83	0	4	0·27	− 0·57	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	63	17th, 19th	36	13th	60·6	44·2	51·8	− 1·9	69	0	3	0·59	+ 0·11	*48·5*	—	*39*	—	*Gordon Castle.*
	a Nairn	65	19th	36	13th	61·1	44·3	52·1	− 1·5	71	0	2	0·20	− 0·18	48·4	—	39	—	Nairn.
	a Aberdeen	63	14th, 17th	36	13th	60·3	45·6	52·4	− 0·3	73	0	4	0·30	− 0·12	46·4	+ 2·9	38	+ 2	Aberdeen.
	a Balmoral .. S	65	14th	34	15th	61·7	38·3	49·2	− 2·3	66	10	3	0·43	− 0·05	49·9	—	41	—	Crathes S.
	p Crieff .. .. S	73	13th	39	13th	69·2	44·3	55·9	+ 0·7	97	0	2	0·03	− 0·61	58·5	—	48	—	Balruddery
	a Leith	66	17th	44	13, 14, 15th	62·3	47·6	54·4	− 0·3	87	0	2	0·09	− 0·31	57·5	+22·2	48	+19	Edinburgh.
	a West Linton .. S	65	14th	31	13th	62·1	39·8	50·2	− 2·0	67	6	3	0·21	—	*54·7*	—	*46*	—	*West Linton.*
	p Marchmont .. S	66	16th, 19th	37	13th	62·3	42·9	51·9	− 0·7	69	0	2	0·09	− 0·42	58·6	+15·7	49	+13	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	71	19th	34	13th	60·4	44·3	51·8	− 1·7	69	0	0	0·00	− 0·44	41·2	—	35	—	Cockle Park.
a, North.	*a* Shields	68	19th	39	13th	58·7	44·4	51·1	− 2·3	64	0	1	0·01	− 0·45	*36·7*	+ *3·4*	*31*	+ *3*	*Newcastle.*
	p Durham	69	19th	35	15th	63·0	43·0	52·3	− 2·4	72	0	1	0·01	− 0·41	44·8	+ 5·0	38	+ 4	Durham.
	p Rounton .. M	67	19th	36	15th	61·9	42·9	51·7	− 1·8	68	0	1	0·05	− 0·40	*	*	*	*	
	p Scarborough .. M	67	19th	46	14th	60·0	48·1	53·6	− 1·0	81	0	3	0·12	− 0·30	20·5	—	17	—	Scarborough.
	p York	69	17th	42	13th	64·1	47·5	55·2	− 1·3	92	0	3	0·11	− 0·37	29·2	− 11·6	25	− 10	York.
b, South.	*a* Spurn Head	66	18th	47	15th	58·3	48·9	53·3	− 1·4	79	0	2	0·20	− 0·14	*	*	*	*	
	a Lincoln	69	19th	42	13th, 15th	62·6	46·1	53·8	− 3·7	83	0	4	0·19	− 0·26	20·9	—	18	—	Skegness.
	a Fulbeck	69	19th	40	13th	63·8	46·0	54·3	− 2·4	86	0	3	0·12	− 0·32	22·8	—	20	—	Rauceby.
															28·9	—	*25*	—	*Lowestoft.*
	p Cromer	64	18th, 19th	47	13, 15, 17th	57·7	48·3	52·7	− 2·7	75	0	3	0·12	—	10·8	—	9	—	Cromer.
a, North.	*p* Hillington .. M	68	18th	40	15th	60·4	45·6	52·5	− 4·0	74	0	3	0·22	− 0·29	20·4	− 25·6	18	− 22	Hillington.
	a Yarmouth	67	19th	46	14th	58·1	48·4	52·9	− 2·6	76	0	0	0·00	− 0·40	22·6	—	20	—	Yarmouth.
	a Norwich	67	18th, 19th	46	14th	61·9	48·9	55·0	− 1·0	91	0	1	0·01	—	*	*	*	*	
3. ENGLAND, E.	*p* Geldeston	66	18th, 19th	45	14th	61·7	48·4	54·6	− 1·3	88	0	1	0·02	− 0·41	26·5	− 22·5	23	− 20	Geldeston.
	p Cambridge	70	17th	42	14th	65·1	46·9	55·4	− 2·2	94	0	0	0·00	− 0·47	35·4	− 11·2	31	− 10	Cambridge.
b, South.	*a Felixstowe*	*67*	*19th*	*47*	*14th*	*61·1*	*48·9*	*54·6*	− *1·9*	*88*	*0*	*1*	*0·01*	—	*35·5*	—	*31*	—	*Felixstowe.*
	a Clacton-on-Sea ..	68	19th	47	13th	61·3	49·4	54·9	− 1·4	90	0	0	0·00	—	26·5	—	23	—	Clacton.
	a Rothamsted ..	68	17th	43	14th	64·3	46·1	54·6	− 1·8	88	0	0	0·00	− 0·48	42·0	− 3·4	37	− 3	Rothamsted.
	a Shoeburyness ..	*72*	*19th*	*46*	*15th*	*62·9*	*49·4*	*55·7*	− *2·9*	*96*	*0*	*0*	*0·00*	− *0·39*	*40·4*	—	*35*	—	*Southend.*
	p Tottenham	70	19th	47	13, 14, 15th	65·6	49·2	56·8	− 0·9	104	0	0	0·00	—	39·7	—	35	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	69	17th	39	13th, 15th	62·3	43·9	52·5	− 1·9	74	0	3	0·08	− 0·46	34·5	—	30	—	Harrogate.
	a Bawtry	67	17th, 19th	39	14th	63·3	44·9	53·5	− 3·3	81	0	3	0·12	− 0·29	26·6	− 11·8	23	− 10	Worksop.
	p Buxton .. M	*64*	*14th*	*35*	*13th*	*61·9*	*44·2*	*52·4*	− *0·6*	*73*	*0*	*2*	*0·15*	− *0·57*	*46·8*	—	*40*	—	*Buxton.*
a, East.	*a* Nottingham ..	68	19th	42	13th	64·1	47·0	55·0	− 1·5	91	0	3	0·08	− 0·36	29·2	—	25	—	Nottingham.
	p Birmingham, Edgbn	68	14th	42	13th	64·5	47·8	55·6	− 0·8	95	0	2	0·07	− 0·44	34·8	—	30	—	Birmingham.
	a Raunds .. M	70	17th, 18th	40	13th, 15th	65·9	43·8	54·1	− 2·8	85	0	2	00·5	—	*	*	*	*	
	a Oxford	70	14th	43	13th	66·3	47·1	56·0	− 1·4	98	0	0	0·00	− 0·49	46·9	+ 1·6	41	+ 1	Oxford.
	a Cheadle .. M	65	13th, 19th	40	16th	62·8	44·5	53·0	− 2·0	77	0	2	0·21	− 0·37	32·3	—	28	—	Sheffield.
b, West.	*p* Shrewsbury	72	19th	40	13th, 14th	67·5	44·2	55·0	− 1·9	91	0	3	0·10	—	*	*	*	*	
	a Hereford .. M	70	18th	27	13th	67·1	44·4	55·0	− 2·3	91	0	4	0·17	− 0·33	*	*	*	*	
	a Cirencester	70	14th	40	13th	65·1	46·8	55·3	− 0·6	93	0	1	0·06	− 0·47	42·7	− 3·5	38	− 3	Cirencester.
	a Bath	70	17th	45	13th, 15th	66·6	48·3	56·8	− 0·6	104	0	1	0·01	− 0·52	53·5	—	47	—	Bath.
															31·3	—	*28*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	70	17th	46	13th	66·1	49·4	57·2	− 0·3	106	0	1	0·01	− 0·47	39·3	− 6·3	35	− 6	Kew.
	a Marlborough ..	69	14th, 17th	36	13th	65·9	42·8	53·6	− 1·9	81	0	1	0·02	− 0·51	45·9	+ 3·3	40	+ 3	Marlborough.
	a Margate	70	19th	50	13,14,15,17,18	61·5	50·5	55·6	− 1·3	95	0	0	0·00	− 0·40	24·4	− 19·2	21	− 17	Margate.
	a Wisley, Surrey ..	71	19th	45	13th, 14th	66·6	47·5	56·4	− 1·9	101	0	1	0·09	—	44·7	—	39	—	Wisley.
	a Swarraton .. M	68	14, 17, 19th	42	13th, 14th	66·3	44·5	54·6	− 1·5	88	0	1	0·09	− 0·44	43·5	—	39	—	Worthing.
	a Tunbridge Wells M	70	19th	46	13th, 14th	64·4	47·6	55·4	− 1·2	94	0	2	0·45	− 0·05	40·3	− 6·6	35	− 6	Tunbridge Wells.
	a Dungeness	64	13th, 16th	45	14th	60·4	48·6	54·1	− 2·6	85	0	0	0·00	− 0·33	32·1	—	28	—	Littlestone.
	p Hastings	66	13th	47	13th	62·6	49·7	55·7	− 1·4	96	0	0	0·00	− 0·40	*30·6*	− *23·0*	*27*	− *20*	*Hastings.*
	p Southampton ..	70	18th	45	13th	68·6	48·8	58·0	− 1·1	112	0	2	0·13	− 0·32	45·3	− 4·2	40	− 4	Southampton.
	a Ventnor	70	18th	45	13th	64·0	49·7	56·4	− 1·4	101	0	1	0·01	− 0·42	52·3	+ 5·8	46	+ 5	Ventnor.
															38·1	− 13·3	34	− 12	Eastbourne.
LONDON	*a Westminster* ..	*71*	*17th*	*48*	*13th, 14th*	*67·1*	*50·1*	*58·0*	− *0·2*	*112*	*0*	*1*	*0·01*	− *0·47*	*29·2*	− *10·0*	*26*	− *9*	*Westminster.*
	a Greenwich	*74*	*19th*	*45*	*14th*	*67·3*	*47·8*	*56·9*	− *1·8*	*104*	*0*	*1*	*0·04*	− *0·42*	*37·4*	− *8·2*	*33*	− *7*	*Greenwich.*
6. a, SCOTLAND. W. ..	*p* Laudale	65	13th, 14th	38	13th	61·0	45·5	52·7	− 2·2	75	0	4	0·71	− 0·12	*	*	*	*	
	a Poltalloch .. S	63	13th, 14th	40	13th	61·0	44·0	51·9	− 3·5	69	0	3	0·42	− 0·26	*	*	*	*	
	p Glasgow	72	14th	42	13th	65·0	47·8	55·8	+ 1·1	97	0	3	0·16	− 0·42	62·5	+24·5	52	+20	Glasgow.
	p Rothesay .. S	70	14th, 15th	39	13th	65·6	46·9	55·6	+ 0·6	95	0	3	0·21	− 0·47	*	*	*	*	
	a Kilmarnock	69	15th	36	13th	63·1	41·9	51·8	− 3·1	69	0	3	0·20	—	*53·9*	—	*45*	—	*Kilmarnock.*
	a Colmonell	67	13th	34	13th	64·0	43·1	52·8	− 2·1	76	0	3	0·18	− 0·38	*	*	*	*	
	p Dumfries .. S	70	16th	39	13th	67·3	45·3	55·5	− 0·8	95	0	2	0·11	− 0·40	*	*	*	*	
	p Cally, Gatehouse S	73	14th	35	13th	68·3	41·7	54·1	− 0·7	86	1	3	0·12	− 0·53	*	*	*	*	
b, ISLE OF MAN ..	*p* Douglas	66	15th	43	13th	62·7	48·1	54·9	+ 0·2	90	0	3	0·18	− 0·41	69·9	+18·5	59	+16	Douglas.
															68·1	—	58	—	Hoylake.
7. a, ENGLAND, N.W. ..	*p* Aspatria	69	15th	40	16th	65·3	44·4	54·1	− 0·4	85	0	3	0·17	− 0·38	72·6	—	62	—	Aspatria.
	p Newton Rigg ..	71	16th	34	13th	67·3	42·0	53·8	− 0·3	83	0	2	0·07	− 0·40	68·6	+20·1	58	+17	Newton Rigg.
	p Stonyhurst	66	14th	40	13th	62·9	45·3	53·5	− 1·9	81	0	3	0·50	− 0·16	48·7	+ 3·1	42	+ 3	Stonyhurst.
	p Blackpool .. M	66	15th	41	13th	60·8	47·6	53·7	− 2·2	82	0	2	0·08	− 0·39	73·8	+27·4	63	+23	Blackpool.
	p M'nch'ster, Prestwich	67	13th	39	13th	64·2	45·2	54·0	− 1·7	84	0	3	0·35	− 0·26	*40·9*	+ *1·8*	*35*	+ *2*	*Prestwich.*
	a Liverpool (Bidston)	63	15th, 18th	47	13, 14, 16th	61·1	49·6	55·0	− 0·8	91	0	3	0·19	− 0·32	*70·8*	—	*61*	—	*Liverpool.*
	a Hawarden Bridge ..	67	18th	41	16th	63·6	47·7	55·1	− 1·8	92	0	2	0·08	− 0·36	*71·7*	+*22·9*	*61*	+*20*	*Southport.*
															73·3	—	*63*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	67	18th	43	13th	63·1	49·1	55·6	− 1·0	95	0	3	0·10	− 0·35	67·6	+20·0	58	+17	Llandudno.
	a Holyhead	64	18th, 19th	46	14th	61·3	49·0	54·7	− 0·4	89	0	2	0·14	− 0·34	59·6	—	52	—	Aberdovey.
	p Bettws-y-Coed ..	69	19th	37	13th	65·6	43·7	53·9	− 1·8	83	0	1	0·06	—	56·1	—	48	—	Bettws-y-Coed.
															50·8	—	44	—	Aberystwyth.
8. a, SOUTH WALES ..	*a* Llangammarch Wells	69	14th	30	14th	64·7	39·8	51·4	− 3·7	75	6	4	0·38	—	46·0	—	40	—	Llangammarch Wells.
	a Pembroke	67	14th	43	13th	61·6	48·6	54·7	− 0·5	89	0	2	0·17	− 0·28	71·9	+19·2	63	+17	Pembroke.
	a Cardiff	68	14, 17, 18th	42	14th	65·3	48·1	56·1	− 1·8	99	0	5	0·21	− 0·36	*50·2*	—	*44*	—	*Cardiff.*
															63·6	+*10·5*	*56*	+ *9*	*Tenby.*
	a Clifton	70	14th, 17th	49	14th, 18th	67·0	50·8	58·3	+ 0·4	114	0	2	0·30	− 0·23	*49·8*	—	*44*	—	*Clifton.*
	a Shaftesbury .. M	68	14th	45	13th	63·6	47·6	55·0	− 0·4	91	0	2	0·24	− 0·30	*	*	*	*	
	a Arlington	68	15th	41	14th	63·6	46·3	54·4	− 0·2	87	0	2	0·43	− 0·27	68·7	+17·1	61	+15	Newquay.
b, ENGLAND, S.W. ..	*a* Cullompton .. M	72	14th, 15th	39	14th	69·7	46·6	57·4	+ 0·2	108	0	3	0·12	− 0·35	55·4	+ 9·1	49	+ 8	Cullompton.
	a Portland Bill ..	68	17th	49	13th	60·7	51·6	55·8	− 0·4	97	0	1	0·04	—	*58·7*	—	*52*	—	*Weymouth.*
	p Plymouth	73	17th	46	13th	67·3	49·5	57·8	− 0·2	111	0	2	0·03	− 0·48	68·0	+18·1	60	+16	Plymouth.
	p Falmouth	67	15th	46	13th	63·6	51·1	56·9	+ 0·2	104	0	0	0·00	− 0·55	72·7	+19·3	64	+17	Falmouth.
															64·1	+*10·5*	*57*	+ *9*	*Torquay.*
9. IRELAND, N.	*a* Malin Head	62	15th	49	13, 14, 17th	59·9	49·7	54·4	+ 0·8	87	0	4	0·34	− 0·14	*	*	*	*	
a, West.	*a* Blacksod Point ..	62	15, 16, 18th	45	14th	61·0	50·7	55·5	+ 0·7	95	0	2	0·22	− 0·39	*	*	*	*	
	p Markree Castle ..	66	14th	36	14th	63·9	44·8	53·7	− 0·6	82	0	3	0·30	− 0·35	43·2	+ 3·4	37	+ 3	Markree Castle.
	a Birr Castle	71	15th	48	13th	65·4	50·9	57·7	+ 2·0	110	0	2	0·20	− 0·32	*21·1*	− *18·1*	*18*	− *16*	*Birr Castle.*
b, East.	*p* Armagh	69	14th	43	15th, 16th	65·8	47·2	55·9	+ 1·2	97	0	3	0·09	− 0·47	41·0	+ 0·8	35	+ 1	Armagh.
	a Donaghadee	64	18th	42	13th	59·7	48·3	53·6	− 1·1	81	0	3	0·24	− 0·29	*	*	*	*	
10. IRELAND, S.	*p* Dublin, City	67	14, 15, 18th	49	13th	65·5	51·6	58·1	+ 0·7	113	0	1	0·02	− 0·41	59·0	+13·2	51	+11	Phœnix Park.
a, East.	*a* Kilkenny	71	15th	45	13th	66·0	50·1	57·5	+ 1·5	109	0	2	0·07	− 0·47	*	*	*	*	
	a Waterford	70	16th	48	13th, 15th	65·7	51·9	58·3	+ 1·6	114	0	1	0·01	− 0·61	*	*	*	*	
	a Birr Castle	71	15th	48	13th	65·4	50·9	57·7	+ 2·0	110	0	2	0·20	− 0·32	21·1	− 18·1	18	− 16	Birr Castle.
b, West.	*a* Foynes	68	14th, 15th	49	16th	64·7	51·8	57·8	+ 1·3	111	0	2	0·17	− 0·38	*	*	*	*	
	a Cahir .. .. M	69	19th	41	14th	66·3	49·3	57·2	+ 1·3	106	0	3	0·13	—	*	*	*	*	
	a Killarney	72	15th	39	14th	67·9	48·9	57·7	+ 1·9	110	0	2	0·07	− 0·60	*	*	*	*	
	a Valencia	63	15th	41	14th, 15th	60·7	49·6	54·8	− 1·4	90	0	2	0·04	− 0·69	53·5	+ 8·3	47	+ 7	Valencia.
	a Roche's Point ..	66	15, 16, 17, 18	48	14th	64·9	52·9	58·5	+ 2·3	116	0	2	0·03	− 0·62	41·2	—	36	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	62	15th, 19th	50	13th	60·7	53·3	56·7	0·0	103	0	0	0·00	− 0·39	70·6	+13·8	63	+12	Scilly.
	a Jersey, St. Aubins ..	70	15th	42	14th	65·3	49·7	57·0	− 1·2	105	0	1	0·01	− 0·46	78·1	+21·9	70	+20	St. Heliers.
	a Guernsey	68	15th	47	13th	65·7	50·0	57·3	− 0·2	107	0	0	0·00	− 0·50	68·8	+10·7	61	+10	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 37·9 hrs.* (*− 14·1 hrs.*), *34 %* (*− 13 %*); *Bournemouth, 47·3 hrs., 42 %*; *Bognor, 48·7 hrs., 43 %*.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	51·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	49·4
	Crathes	3	23	54·1	49·9
	Balmoral	1	29	—	—
	West Linton	1	28	—	—
	Marchmont	1	30	55·6	—
2.	Cockle Park	0	34	55·4	51·4
	Durham	0	34	—	—
	York	—	—	55·1	51·4
	Hull	0	38	54·9	51·0
	Lincoln	—	—	54·5	51·5
	Rauceby	0	35	56·8	52·5
3.	Norwich	0	42	—	—
	Yarmouth	—	—	58·7	55·1
	Lowestoft	0	43	57·8	53·5
	Cambridge	0	35	56·7	53·5
	Clacton-on-Sea	0	42	55·6	54·2
	Southend	9	44	56·3	—
	Tottenham	0	40	—	53·8
4.	Harrogate	0	31	52·1	50·5
	Huddersfield	0	35	55·7	49·4
	Buxton	0	34	52·3	48·9
	Sheffield	0	35	53·5	50·0
	Nottingham	0	32	55·1	51·9
	Birmingham	1	25	51·1	48·5
	Oxford	0	—	—	—
	Hereford	1	29	—	—
	Cirencester	0	34	—	—
5.	Margate	0	45	55·8	53·4
	Greenwich	0	33	—	—
	Westminster	0	43	—	—
	Kew	0	37	56·5	52·6
	Canterbury	0	41	55·1	54·5
	Tunbridge Wells	0	39	57·8	—
	Wisley	0	40	57·5	53·8
	Worthing	0	43	58·2	54·1
	Portsmouth	0	39	59·0	55·4
6.	Glasgow	0	33	—	—
	Rothesay	—	—	—	51·5
	Colmonel	0	31	—	—
	Dumfries	—	—	—	—
	Douglas	0	38	—	—
7.	Aspatria	0	33	—	—
	Newton Rigg	1	28	56·9	51·2
	Burnley	0	31	54·7	49·7
	Southport	0	31	59·8	55·0
	Manchester City	0	34	55·4	52·4
	Bettws-y-Coed	0	36	52·4	50·0
8.	Llangammarch Wells	5	23	53·9	50·6
	Cardiff	0	35	57·9	53·2
	Clifton	0	44	—	—
	Bath	—	—	—	—
	Plymouth	0	38	58·6	59·5
9.	Armagh	0	34	57·9	53·5
	Markree	1	30	—	—
10.	Dublin, Trin. Coll.	0	41	58·2	53·9
11.	Guernsey, Brooklyn	0	42	60·7	56·7

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	49	48	48·1
	Kirkwall	55	53	53·8
	Wick	56	54	55·0
SCOTLAND, E.	Cromarty	53	50	51·5
	Pennan Bay	53	51	51·9
	Aberdeen, Cove Bay	52	49	50·4
ENGLAND, N.E.	Burnmouth, Berwick	50	49	49·2
ENGLAND, E.	Scarborough	52	48	50·0
	Shipwash Lightship	56	53	54·4
ENGLAND, S.E.	Margate‡	59	57	57·7
	Eastbourne‡	58	55	56·3
SCOTLAND, W.	Lamlash	58	52	54·4
	Ballantrae	54	52	53·7
ENGLAND, N.W.	Port Erin	56	50	52·1
ENGLAND, S.W.	Newquay	58	57	57·7
	Plymouth‡	57	55	55·7
	Salcombe	56	54	55·0
IRELAND, N.W.	Sheephaven	58	54	56·8
	Teelin	60	54	56·7
IRELAND, S.W.	Cleggan	60	55	56·8
IRELAND, E.	Seafield	59	55	57·3

‡ Only one observation each day.

CORRECTIONS AND ADDITIONS FOR MAY, 1909.

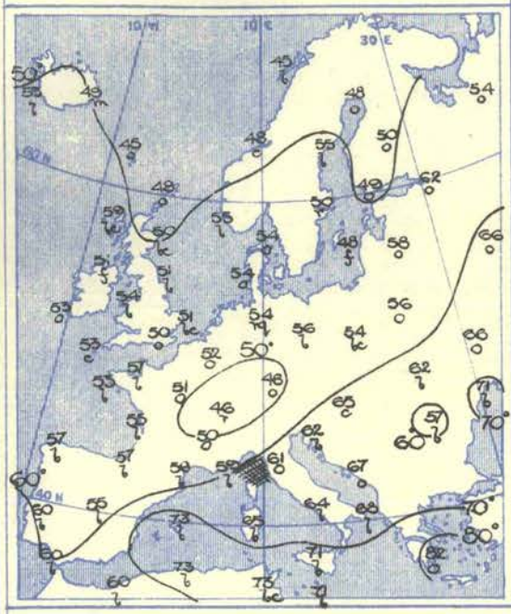
NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

NUMBER AND PAGE OF REPORT.	NUMBERS OF DISTRICTS AND NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Daily Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 19, p. 154	3. England, E.	—	—	—	—	—	—	—	—	—	—	—	0·12	−0·27	—	—	—	—
No. 19, p. 154	6. Scotland, W.	—	—	—	—	—	—	—	—	—	—	—	0·22	−0·43	—	—	—	—
Station Values.— Additions.																		
No. 19, p. 155	Kilmarnock	59	9, 10	33	15th	54·1	36·9	45·0	−3·5	42	14	2	0·39	—	55·4	—	51	—
No. 20, p. 163	Kilmarnock	70	21, 22	28	16th	60·6	40·5	50·0	+0·2	62	4	5	0·67	—	45·6	—	41	—
No. 22, p. 179	Kilmarnock	64	3rd	35	5th	59·4	42·8	50·5	−1·9	60	0	4	1·00	—	28·9	—	25	—
No. 22, p. 179	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	33·1	—	29	—
Station Values.— Corrections.																		
No. 17, p. 130	Rhyl	—	—	—	—	—	—	—	—	—	—	—	—	—	55·6	—	55	—
No. 18, p. 147	Fulbeck	—	—	31	2nd	—	39·7	49·5	+1·2	—	6	—	—	—	—	—	—	—
No. 18, p. 147	Hillington	—	—	—	—	—	—	—	—	—	—	—	—	—	89·6	+48·2	86	+46
No. 18, p. 147	Cheadle	—	—	—	—	—	38·0	48·6	+1·6	—	11	—	—	—	—	—	—	—
No. 19, p. 155	Durham	—	—	—	—	—	—	—	—	—	—	—	0·15	−0·25	—	—	—	—
No. 19, p. 155	Hillington	—	—	—	—	—	—	—	—	—	—	—	0·65	+0·25	—	—	—	—
No. 19, p. 155	Clacton-on-Sea	—	—	—	—	55·7	—	47·3	−1·8	46	—	—	—	—	—	—	—	—
No. 19, p. 155	Llandudno	—	—	—	—	—	—	—	—	—	—	2	0·08	−0·34	—	—	—	—
No. 20, p. 163	Llandudno	—	—	—	—	—	—	—	—	—	—	2	0·03	−0·40	—	—	—	—
No. 21, p. 171	Scarborough	—	—	—	—	—	—	—	—	—	—	—	1·30	+0·87	—	—	—	—
No. 21, p. 171	York	—	—	—	—	63·7	—	56·1	+3·8	99	—	—	—	—	—	—	—	—
No. 21, p. 171	Lincoln	75	23rd	—	—	64·9	48·6	56·3	+3·5	100	—	—	—	—	—	—	—	—
No. 21, p. 171	Cheadle	—	—	—	—	61·0	—	53·5	+2·7	81	—	—	—	—	—	—	—	—
No. 21, p. 171	Kilmarnock	—	—	—	—	—	—	—	—	—	—	—	—	—	36·0	—	31	—
No. 21, p. 171	Cahir	—	—	43	—	—	47·7	53·3	+0·8	79	—	—	—	—	—	—	—	—
No. 22, p. 179	Scarborough	—	—	—	—	—	—	—	—	—	—	4	0·11	−0·32	—	—	—	—
No. 22, p. 179	Markree Castle	—	—	—	—	—	45·2	51·8	−0·1	69	—	—	—	—	—	—	—	—

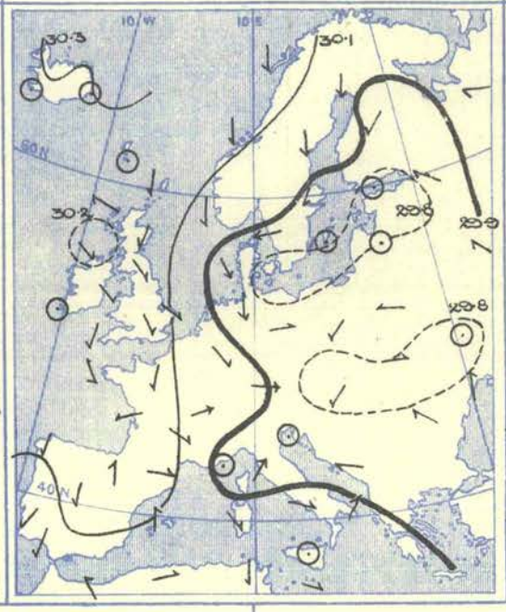
		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
Station Values.— Additions.					
No. 20, p 164	Portsmouth	0	31	56·0	52·6
No. 21, p. 172	Portsmouth	0	39	59·4	54·5
No. 21, p. 172	Bath	—	—	57·6	53·5
No. 22, p. 180	Bath	—	—	57·1	54·0

Sunday, 13th June, 1909.

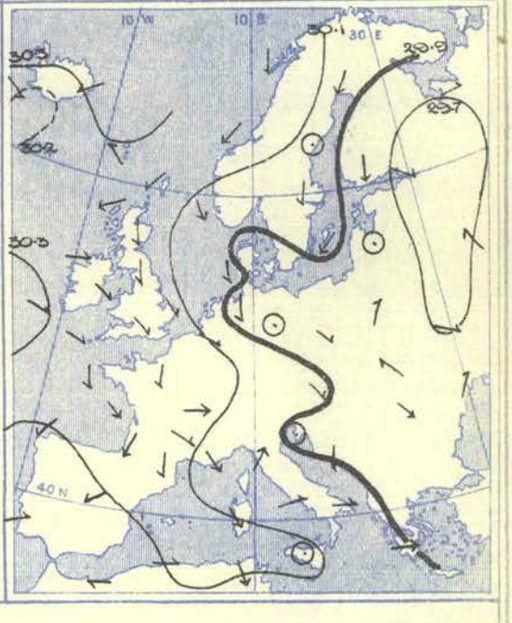
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater portion of our area, but overcast in places; rainy at Cuxhaven and at some Baltic stations, and rainy and foggy at Castlebay. Some rain later at several places in central Europe, and also in the east of France.

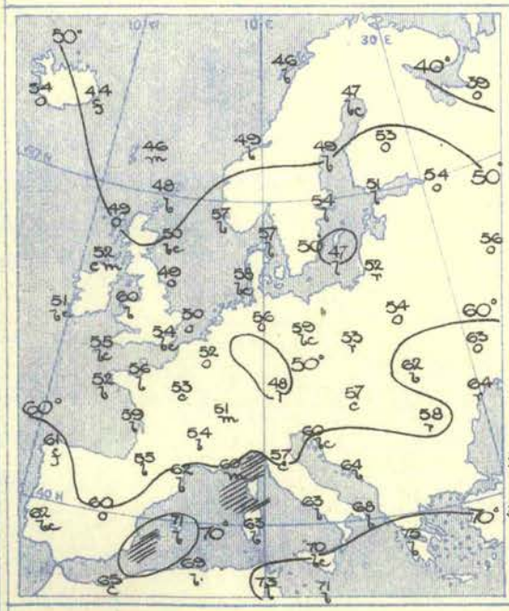
Temperature showing no general change. Readings in morning very low for the time of year generally; below 55° at most places, and below 50° at many northern stations. Above 60° over the greater portion of Russia and the Mediterranean region, and above 70° in places. Maxima during day below 60° at some of our own stations and at a few in central Europe, but above 70° in Russia, Hungary, and southern Europe, and above 80° at some places in the far south of our area.

Wind in morning light to moderate in force and generally cyclonic; Northerly over the North Sea region and most of this country. Increasing somewhat in force from the North-Westward over various parts of the Continent and southern Europe by evening, but no general change occurring in direction.

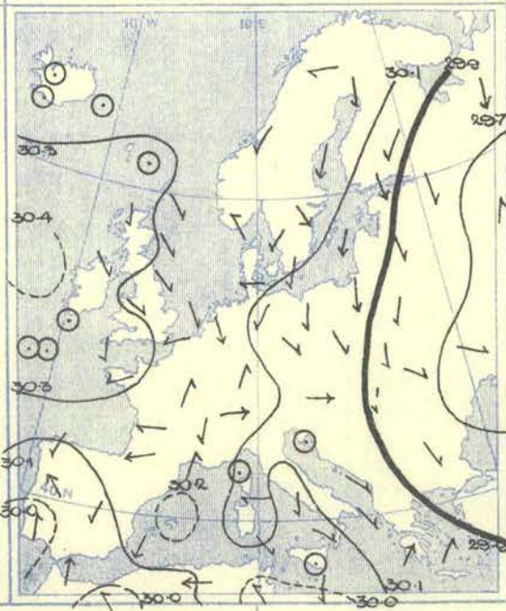
Barometer in morning ranging from above 30·2 ins. in the west of these Islands and over the Atlantic and Iceland to below 29·8 ins. in two separate minima of considerable size lying over the Continent; nearly as low over the Gulf of Genoa. Continental disturbances undergoing much modification in form and size during day; apparently moving eastwards and forming one system. Some very shallow systems appearing over the North Sea and Denmark.

Monday, 14th June, 1909.

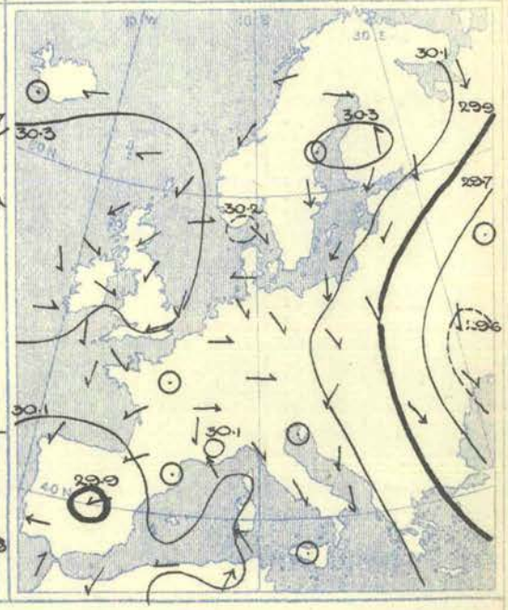
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in many parts of central Europe, with rain in places, and rain falling at Odessa and Hermanstadt also. Fair to fine and bright over our area as a whole. Some rain, very heavy in places, falling later in Germany, Austria, and the south of Russia, but conditions remaining dry as a whole.

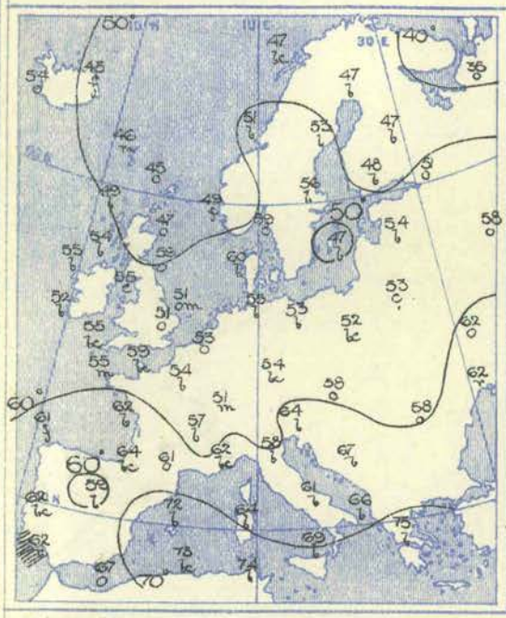
Temperature changed little and rather irregularly. Morning readings above 70° at a few places in the far south and above 60° over the greater portion of the Mediterranean and in the south of Russia. Below 55° over these Islands and the adjacent part of the Continent, and below 50° at some Scottish and Norwegian stations. Maxima during day above 65° at some of our own stations, and as high as 70° at Oxford. Below 60° in several parts of Germany, and not much above it in Austria, but above 70° over nearly the whole of southern Europe, and about 90° in Algeria.

Wind in morning varying locally, but mainly Northerly over these Islands and the northern half of the Continent; strong at Wisby and Helsingfors, very light generally. Light or moderate breezes from no general direction prevailing over the Mediterranean.

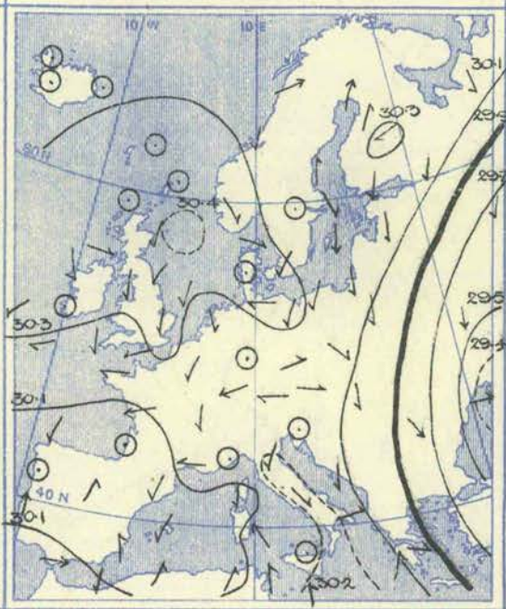
Barometer in morning ranging from above 30·3 ins. over the west and north of the United Kingdom and the adjacent portion of the ocean to below 29·7 ins. in a large depression over Russia. Some less important disturbances shown over other parts of our area. Pressure increasing steadily over the north of this country and briskly over the north of the Continent during day, decreasing in the south of Russia. Anticyclonic area growing considerably larger over the north-western countries.

Tuesday, 15th June, 1909.

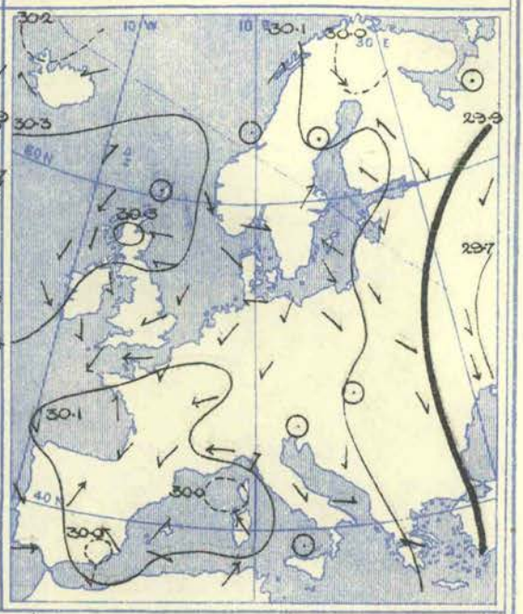
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to overcast over the United Kingdom, generally fair or fine over the western countries of the Continent and the Mediterranean region, and overcast in Russia. Rain falling at Odessa, and also at Vienna and Flushing. Remaining dull all day in the east of England, and some rain experienced in the south of France, at a few stations in central Europe, and in Russia.

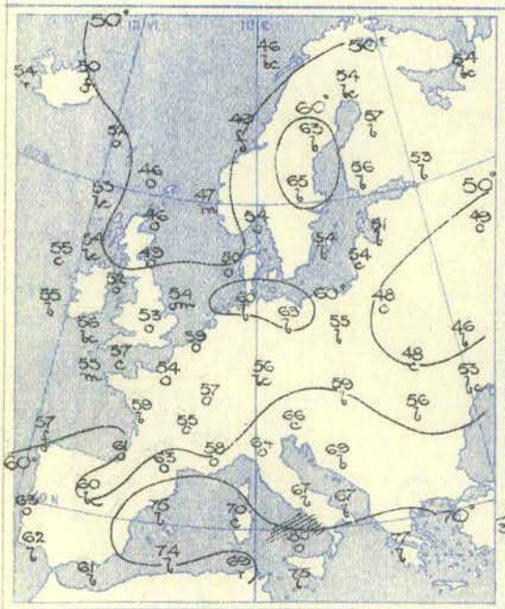
Temperature changed rather irregularly. Readings in morning about 50° over a large portion of Britain and Scandinavia, and below 55° in most parts of Germany and the Netherlands; above 60° over the south of our area and the southern half of Russia, and above 70° in places. Remaining below 60° during day in many parts of Great Britain, but rising to 70° at Jersey, and to 71° at Birr Castle. Maxima between 80° and 90° at many stations in the south of Europe and Algeria, and as high as 100° at Tunis.

Wind in morning light and rather variable over these Islands and the North Sea region, and light from the Eastward over France. Light or moderate and chiefly Northerly over Russia, and rather variable over the Mediterranean. Becoming mainly Easterly or North-Easterly over this country by evening, and blowing strongly from the North-Westward on the south coast of Norway, and also in the south of Russia. Increasing to a fresh breeze on some shores of the Mediterranean.

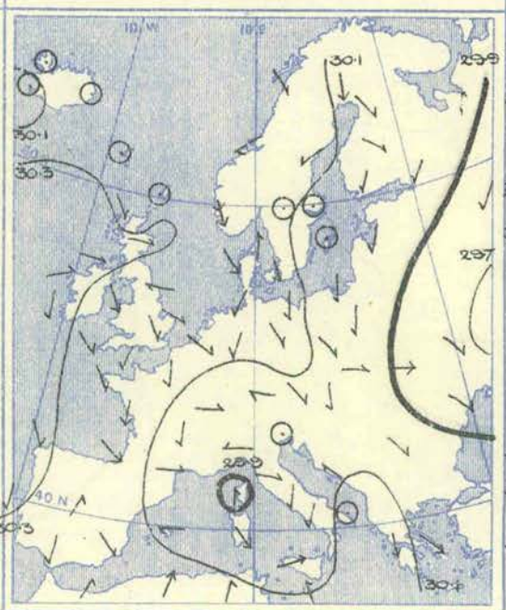
Barometer in morning above 30·3 ins. in a large anticyclone extending from the Atlantic and covering these Islands and the North Sea. Relatively low over the Mediterranean, and below 29·4 ins. in a depression over the Black Sea. Some minor modifications occurring later in the distribution, but no general change. Russian depression moving eastwards.

Wednesday, 16th June, 1909.

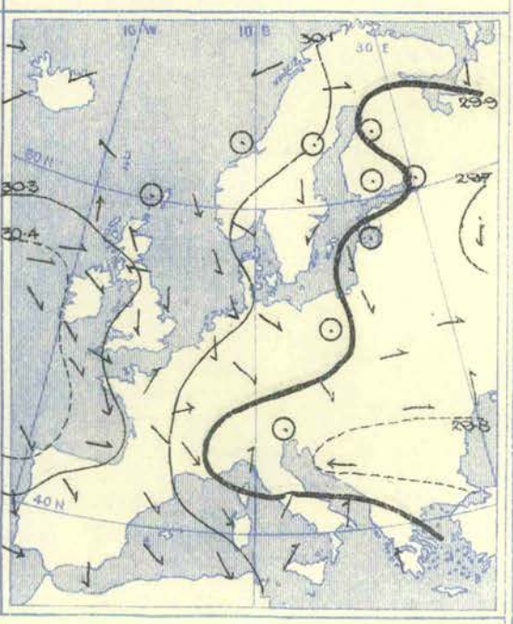
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or dull in most parts of these Islands, France, and northern Italy, with rain at Toulouse. Fair to fine in most other regions. Some rain later in some central districts in France, as well as in northern Italy and central Russia; about an inch at Moscow.

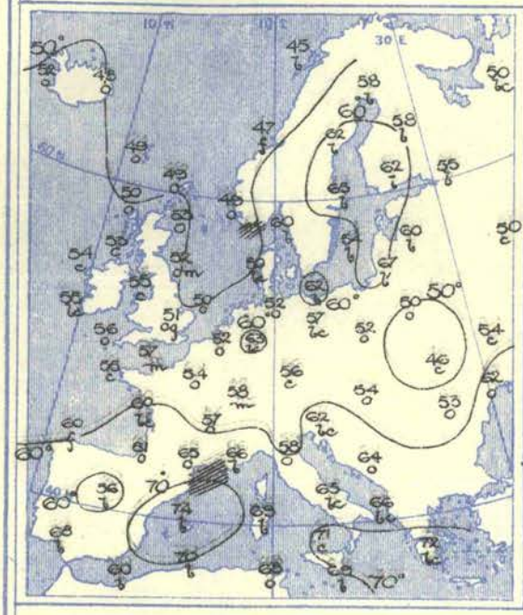
Temperature risen at most places in northern and central Europe, and also at several southern stations. Readings in morning below 50° in Scotland and very little above it in England. Above 60° at some Swedish stations, and above 70° over a large area on the Mediterranean. Maxima during day about 65° in some parts of England and Ireland, 70° or rather above in most parts of Germany, France, and Belgium, and above 80° at some stations in the south of our area. Thermometer touching 91° at Palermo.

Wind in morning showing a cyclonic circulation over the Mediterranean: of little force generally, but Westerly current blowing very strongly at Palermo. Light and mainly Northerly over the United Kingdom and the northern half of the Continent, and strong from North-West in the south of Russia. Becoming more variable over these Islands by evening. Cyclonic movement over the Mediterranean less well marked, and force decreasing to a gentle breeze at Palermo.

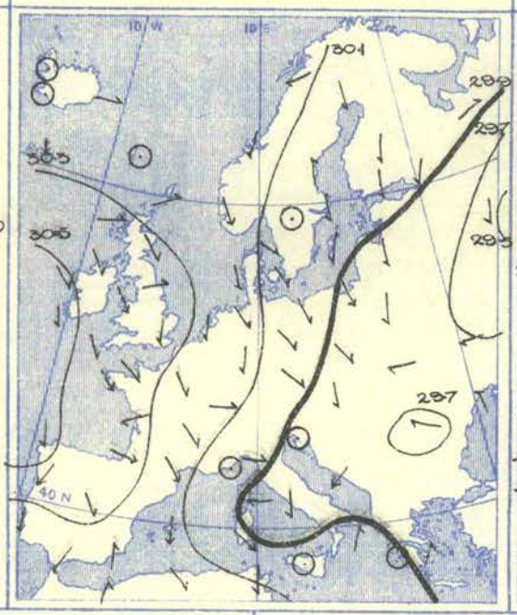
Barometer in morning above 30·3 ins. over the west and north of these Islands and the adjacent portion of the ocean; below 29·9 ins. in a depression over Corsica, and below 29·6 ins. in a large system having its minimum in the neighbourhood of Kharkoff. Not much change taking place in the general distribution during day; pressure increasing rather decidedly over the Bay of Biscay region, and decreasing slightly over the north of these Islands.

Thursday, 17th June, 1909.

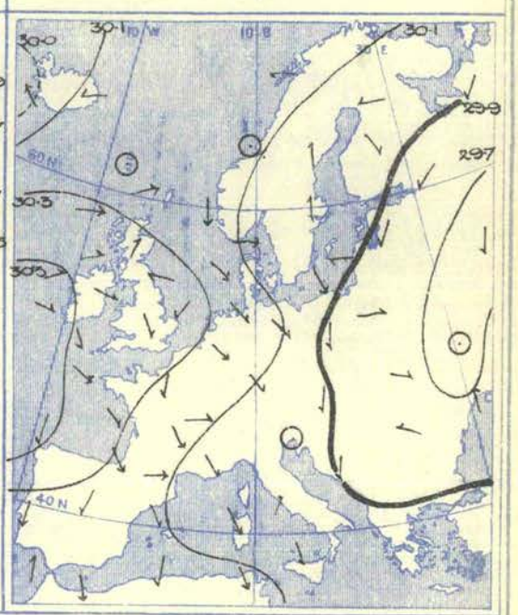
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fair to fine and bright over our area as a whole, but overcast in some localities, and rainy at Vienna. Slight rain later in the north of these Islands and in a few scattered localities on the Continent, and more than 0·8 in. and 1·5 in. respectively at Rome and Biarritz.

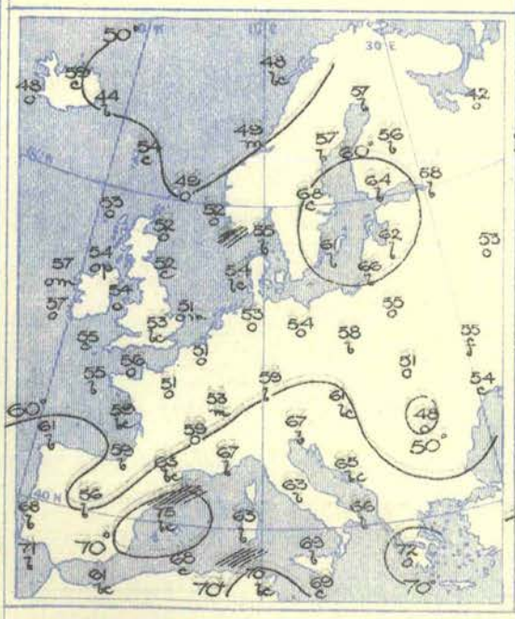
Temperature fallen in most regions. Morning readings ranging from about 70° at several stations on the shores of the Mediterranean, and 65° at Stockholm to below 55° in most parts of these Islands and the nearer districts of the Continent, and to below 50° on the coast of Norway. Rising during day to 71° in London and 70° at Bath, but remaining below 60° on our east and south-east coasts. Maxima above 70° in most parts of France and southern Europe, and about 80° in some localities.

Wind in morning mainly between North and North-West over the western half of our area, but Westerly in the north of Scotland. A strong breeze prevailing at Skudesnaes and at some stations in southern Europe, but force very light generally. A feeble cyclonic circulation shown in the east of Europe. Little change later; backing towards South-West in the north-west of Ireland.

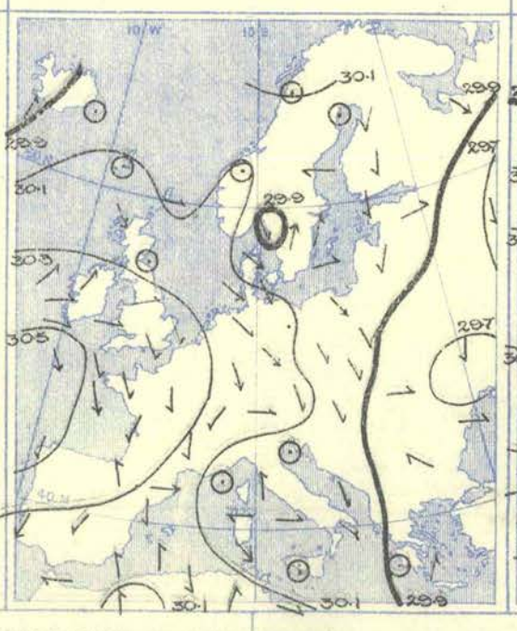
Barometer in morning above 30·5 ins. on the Atlantic to the west of this country; below 29·5 ins. in a large depression having its minimum over central Russia, and relatively low in another sytem over Transylvania and its neighbourhood. No change of a general character occurring during day. Pressure increasing over our Islands and Brittany, decreasing rather decidedly in Iceland.

Friday, 18th June, 1909.

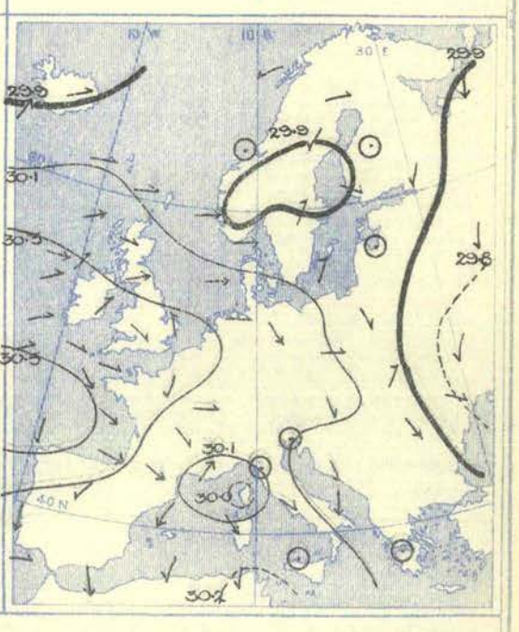
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning cloudy or overcast over the major portion of our area, but fine and bright in some localities. Rain falling at Barcelona and Toulouse, and also at some stations in the north of these Islands. Some rain later in the west and north of these Islands and in a few widely separated localities on the Continent, and as much as 0·89 in. at Rome.

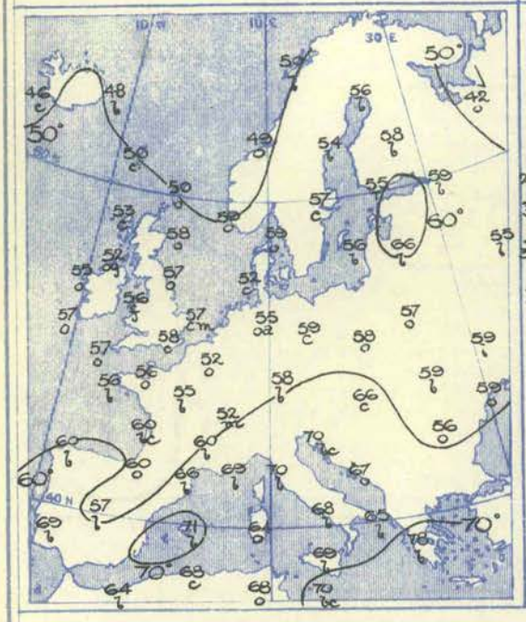
Temperature showing no general change. Morning readings below 55° at nearly all stations in Great Britain, the Netherlands, and the north of France, but as high as 66° at Helsingfors and 68° at Stockholm. Thermometer about 70° over a large part of the Mediterranean region. Maxima during day about 70° in the south of England, above 75° in Sweden and southern Europe, and above 80° in a few extreme southern localities. Thermometer remaining below 60° in a few parts of this country and on the coast of Normandy.

Wind in morning light or moderate from North-West or West in this country, and from North or North-East in France and the Peninsula. A light current from some Northerly point prevailing over the eastern half of our area generally, but some considerable variations locally. Becoming rather more Westerly by evening in this country. Increasing in force in the south of Norway and at some stations on the shores of the Mediterranean.

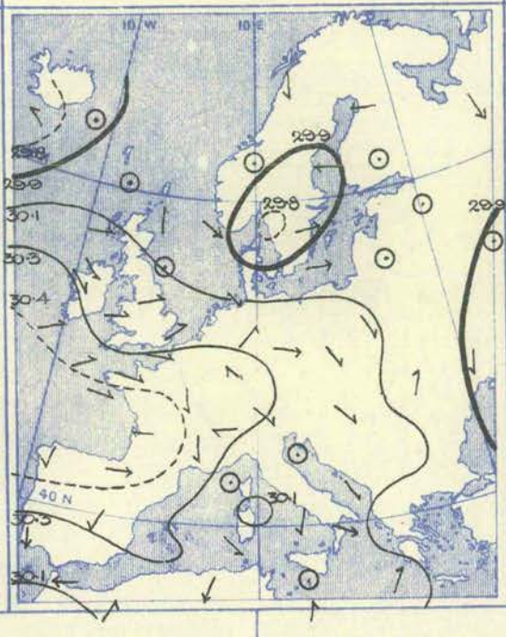
Barometer in morning ranging from above 30·5 ins. in an anticyclone to the south-westward of this country, to below 29·9 ins. in a depression over the south of Norway, and to less than 29·7 ins. in other minima over Russia. Pressure giving way somewhat decidedly in Iceland. No material change taking place in the distribution during day; decreasing slowly in these Islands.

Saturday, 19th June, 1909.

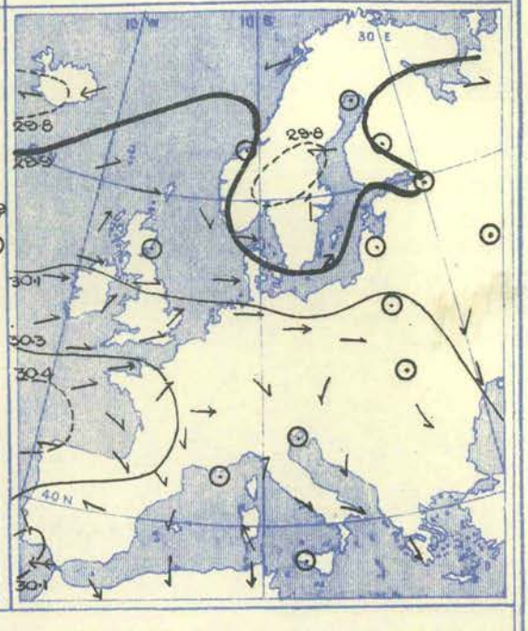
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast in most parts of these Islands, with rain or passing showers in places. Fair to fine over the major portion of the Continent, but rainy at Cuxhaven and Hangö. Some rain later in most parts of the United Kingdom, and also in some localities in central Europe and Italy.

Temperature risen in most regions, fallen in Sweden. Readings in morning nearly 60° in many parts of the United Kingdom, about 70° over part of southern Europe and the Mediterranean, and as high as 78° at Patras. About 50° along the west coast of Norway, and as low as 42° at Archangel. Rising during day to about 70° in a few English localities and over the central countries, and to about 80° in various southern regions. Maxima only about 60° in the north-west of England.

Wind in morning light and mainly Westerly over these Islands and between West and North-West over the central countries. A rather indistinctly marked cyclonic circulation prevailing over Scandinavia, as well as over the Mediterranean. A high wind from West blowing at Skagen, and a high wind from East at San Fernando. Latter increasing to a gale by evening, but former decreasing to a moderate breeze. No change of a general character.

Barometer in morning above 30·4 ins. in a large anticyclonic system extending from the Atlantic to France. Below 29·7 ins. in the south-east of Russia, below 29·8 ins. over Christiana and its neighbourhood, and less than 30·1 ins. in a shallow minimum over northern Sardinia. High pressure system decreasing slowly in intensity, and a large depression on the Atlantic approaching these Islands and producing a very general fall of the barometer.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1909.										Metres.	
1	June 15th, 4.29 p.m. to 4.55 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 68% 95°, 8	286° 65% 94°, 10	286° 63% 93°, 11					285° 56% 90°, 15 } 700	Weather very fine. Moderate breeze, very gusty. Clouds A.-Cu. 1.
2	June 16th, 11.13 a.m. to 11.30 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 84% —, 0	283° 86% 18°, 1	282° 88% 25°, 1	279° 90% 78°, 1				279° 90% 78°, 1 } 1,000	Overcast and dull. Calm. Clouds Nimbus and A.-Cu. 10. Balloon burst at 1,000 m.
3	June 17th, 11.27 a.m. to 2.12 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 62% 298°, 6	285° 62% 295°, 8	284° 63% 294°, 10	278° 72% 287°, 14	274° 73% 293, 14			274° 69% 295°, 13 } 1,600	Weather fair to fine. Moderate breeze. Clouds Cu. and Cu.-Nimbus 7 to A.-Cu. 2. Two kites on one wire.
4	June 18th, 10.48 a.m. to 11.47 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	285° 80% 292°, 5	284° 82% 287°, 7	284° 84% 288°, 8					283° 88% 270°, 13 } 700	Overcast and dull. Gentle breeze, gusty. Clouds Cu. and Cu.-Nimbus 10.
5	June 19th, 10.39 a.m. to 1.18 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind .. .	286° 94% 264°, 5	285° 94% 265°, 8	285° 94% 266°, 10	283° 94% 276°, 16	281° 92% 281°, 15	279° 77% 281°, 13		276° 30% 281°, 13 } 2,400	Dull and wet. Gentle breeze. Clouds Nimbus 10. Large fall in humidity at about the highest point. Clouds at 550 m.
6	June 19th, 9.55 a.m. to 11.11 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	289·5° 85% 225°, 6	288·5° 85% 225°, 11	286° 95% 230°, 11	284° 100% 240°, 12				284° 80% 250°, 12 } 1,150	Overcast. Lowest clouds at 700 m. Wind light and irregular.
7	June 19th, 10.0 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	288° 90% 250°, 4	287° 90% 250°, 11	285° 70% 255°, 11					284° 70% 260, 12 } 950	At 10 a.m. half overcast, at 12.30 p.m. clear with a little scud at 200 m.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7
No. of Kites	1	1	2	1	1	1	2
Area of Surface (sq. metres) ..	7·5	—	15	7·5	8	7	15·0
Capacity of Balloon (cub. metres)	—	2·0	—	—	—	—	—
Length of Wire (metres)	450	750	2,100	400	1,600	1,800	2,900

63, Victoria Street, London, S.W. *June 23rd, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* } No. 25. TWENTY-FIFTH WEEK, SUNDAY JUNE 20TH TO SATURDAY JUNE 26TH, 1909. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—General Remarks.

Weather in its general character was dull, with frequent and sometimes heavy rain, while thunderstorms occurred on various dates in almost all parts of the Kingdom.

Temperature continued below the average, the deficit being more than 3° in Ireland, all the western and midland parts of England, and about 2° in most other districts. The highest of the maxima were registered on the 20th or 21st in most places, and ranged from 72° in England S.E. and the Midland Counties to 66° in Ireland, England S.W., and Scotland E., and to 63° in Scotland N. On several days the maxima were below 60° in most districts. The lowest of the minima, which were recorded on irregular dates, varied between 38° in Scotland N. and 39° in the Midland Counties and England N.W. to 47° in England E. and to 50° in the English Channel. The lowest grass minima reported were 30° at Newton Rigg, 32° at Burnley and Manchester, and 33° at Llangammarch Wells.

Mean Temperature of the Sea.—On all coasts except the north of Scotland the water was colder than during the corresponding week of last year, but the difference was not great generally. The means for the week ranged from about 58° at Margate, Eastbourne, Newquay, Sheephaven, and Seafield to 49°·2 at Berwick, and to 49°·1 at Lerwick.

Rainfall exceeded the average, the excess being large in almost all districts. In some parts of England the fall was from three times to more than four times the normal. Many parts of the Kingdom experienced more than an inch of rain within 24 hours at various times between the 21st and 24th, and about an inch fell in London at the end of the week. The largest amounts reported were 1·52 in. at Rothesay, on the 21st, and 1·65 in. at Dumfries and 1·42 in. at Kingstown, on the 23rd.

Bright Sunshine was deficient over the Kingdom generally, but less so in Scotland and the English Channel than elsewhere. The percentage of the possible duration ranged from 10 in England N.W., 13 in England N.E., and 16 in the Midland Counties to 30 in England S.E. and to 47 in the English Channel.

Barometer and Wind.—During the whole of the period the winds and weather were dominated by one depression. The system which lay off the north-west coasts on Sunday travelled very slowly, and on an irregular path, at the same time undergoing various modifications in form and intensity. The centre reached the south of England on Friday, when, after moving north-eastward to the North Sea by Saturday, it again changed its course and travelled westwards to England. Until Wednesday, when the barometric minimum lay well to the westward, the main wind current was Southerly over the Kingdom generally, and North-Easterly in the far north, but subsequently Northerly to North-Westerly winds set in gradually over the whole Kingdom. As a rule the wind had little force, but a strong breeze was experienced at times on the western and southern coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 180.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient
	Rainfall ...	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Very heavy	Very heavy	Very heavy	Very heavy	Very heavy	Very heavy	Heavy
	Sunshine ...	Scanty	Scanty	Very scanty	Scanty	Very scanty	Scanty	Very scanty	Very scanty	Scanty	Scanty	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 3 weeks from June 6th, 1909.	Warmth ...	0 * 2	0 * 2	0 * 3	0 * 2	0 * 2	0 * 3	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2
	Rainfall ...	1 * 2	1 * 1	1 * 2	1 * 1	1 * 1	1 * 1	1 * 2	1 * 2	1 * 1	1 * 2	1 * 2	1 * 2
	Sunshine ...	0 * 1	1 * 1	0 * 2	0 * 3	0 * 2	0 * 2	1 * 1	1 * 1	1 * 1	0 * 1	0 * 2	1 * 0

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	5 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5

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UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-FIFTH WEEK—June 20th to June 26th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	*	*	*	*	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	63	38	57·0	46·5	51·4	− 2·0	66	− 14	0	0	6	+ 2	1·10	+0·41	24	− 11	19	− 9
Eastern																		
1. SCOTLAND, EAST	66	40	58·0	47·0	52·1	− 2·7	71	− 19	0	0	6	+ 3	1·17	+0·63	23	− 20	18	−16
2. ENGLAND, N.E.	71	45	59·8	49·4	54·3	− 1·7	86	− 12	0	0	7	+ 3	1 81	+1·30	15	− 29	13	−24
3. ENGLAND, EAST	71	47	62·7	51·8	56·9	− 0·9	104	− 6	0	0	6	+ 3	1·31	+0·88	31	− 16	27	−14
4. MIDLAND COUNTIES	72	39	60·4	49·2	54·4	− 3·2	87	− 22	0	0	7	+ 4	1·79	+1·31	18	− 24	16	−21
5. ENGLAND, S.E.	72	42	61·7	51·5	56·3	− 2·2	100	− 16	0	0	6	+ 4	1·27	+0·87	34	− 15	30	−13
Western																		
6. SCOTLAND, WEST	67	42	60·2	47·6	53·4	− 2·6	80	− 18	0	0	6	+ 2	2·13	+1·41	22	− 22	18	−18
7. ENGLAND, N.W.	67	39	59·5	48·8	53·8	− 3·2	83	− 22	0	0	6	+ 3	1·48	+0·90	12	− 33	10	−28
8. ENGLAND, S.W.	66	44	59·3	50·0	54·4	− 3·2	87	− 22	0	0	6	+ 2	1·36	+0·82	28	− 19	25	−17
9. IRELAND, NORTH	66	41	58·1	48·0	52·7	− 3·3	75	− 22	0	0	6	+ 2	1·48	+0·82	22	− 17	18	−14
10. IRELAND, SOUTH	66	40	59·8	48·8	53·9	− 3·5	83	− 25	0	0	6	+ 2	1·40	+0·77	23	− 19	20	−16
11. ENGLISH CHANNEL	68	50	61·6	52·7	56·9	− 1·6	104	− 11	0	0	4	+ 1	0·81	+0·40	53	− 4	47	− 4

THE SEASON (Summer).—Aggregates, &c., for the Period of 3 Weeks, June 6th to June 26th, 1909.

0. SCOTLAND, NORTH	71	35	*	*	*	*	188	− 32	0	− 2	11	0	1·40	−0·47	97	− 16	26	− 4
Eastern																		
1. SCOTLAND, EAST	73	31	*	*	*	*	198	− 47	0	− 1	10	+ 1	1·47	−0·02	123	− 3	34	− 1
2. ENGLAND, N.E...	71	33	*	*	*	*	220	− 45	0	0	11	+ 2	1·99	+0·72	84	− 46	24	−13
3. ENGLAND, EAST	71	35	*	*	*	*	248	− 55	0	0	11	+ 2	1·74	+0·25	97	− 44	28	−13
4. MIDLAND COUNTIES.. ..	72	33	*	*	*	*	232	− 71	0	0	11	+ 3	2·14	+0·72	81	− 47	23	−14
5. ENGLAND, S.E.	72	35	*	*	*	*	259	− 65	0	0	10	+ 2	1·69	+0·32	109	− 35	32	−10
Western																		
6. SCOTLAND, WEST	73	32	*	*	*	*	222	− 51	0	0	10	0	2·40	+0·46	142	+ 6	40	+ 2
7. ENGLAND, N.W...	71	32	*	*	*	*	225	− 65	0	0	9	0	1·72	+0·23	119	− 20	34	− 6
8. ENGLAND, SW...	73	30	*	*	*	*	255	− 53	0	0	10	0	1·85	+0·27	133	− 12	39	− 3
9. IRELAND, NORTH	71	33	*	*	*	*	233	− 37	0	0	10	− 1	1·74	−0·08	103	− 19	29	− 5
10. IRELAND, SOUTH	72	36	*	*	*	*	268	− 35	0	0	9	− 1	1·54	−0·20	104	− 29	30	− 8
11. ENGLISH CHANNEL	70	42	*	*	*	*	303	− 21	0	0	6	− 4	0·92	−0·34	188	+ 19	56	+ 6

THE YEAR.—Aggregates, &c., for the Period of 25 Weeks, January 3rd to June 26th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	617	− 51	535	− 22	114	− 1	17·83	−4·88	594	− 13	27	− 1
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	676	−100	673	+ 53	97	+ 4	15·73	+2·98	667	− 27	31	− 1
2. ENGLAND, N.E.	81	14	*	*	*	*	818	+ 1	580	+105	85	− 1	11·34	+1·59	741	+ 9	34	+ 1
3. ENGLAND, EAST	82	12	*	*	*	*	917	− 77	554	+ 33	86	+ 2	9·87	+0·06	861	+ 85	40	+ 4
4. MIDLAND COUNTIES.. ..	82	8	*	*	*	*	952	− 70	642	+109	79	− 3	10·95	−0·18	767	+ 72	36	+ 3
5. ENGLAND, S.E...	82	0	*	*	*	*	961	−130	482	+101	81	+ 2	11·59	+0·61	926	+151	43	+ 7
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	809	− 56	445	+ 20	93	− 6	19·92	+0·16	747	+ 89	34	+ 2
7. ENGLAND, N.W.	79	10	*	*	*	*	862	− 52	466	+ 80	86	− 4	13·65	−0·13	839	+129	39	+ 6
8. ENGLAND, S.W.	81	7	*	*	*	*	940	−133	390	+ 89	88	− 2	14·36	−1·30	879	+ 98	41	+ 5
9 IRELAND, NORTH	72	14	*	*	*	*	907	− 23	315	− 30	109	+ 3	15·77	−0·01	678	− 4	31	0
10. IRELAND, SOUTH	76	15	*	*	*	*	1093	− 29	265	+ 6	103	+ 7	17·03	−0·23	764	+ 10	35	+ 1
11. ENGLISH CHANNEL	78	25	*	*	*	*	1265	+ 22	151	+ 42	84	−13	12·98	−0·20	1052	+120	49	+ 6

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℜ is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N.	*p Balta Sound* S	*59*	*23rd*	*41*	*26th*	*53·7*	*45·2*	*49·2*	—	*50*	*0*	*5*	*1·09*	—	*16·3*	—	*12*	—	*Balta Sound.*
	a, Islands. *a* Sumburgh Head ..	57	23rd	44	25th, 26th	52·7	45·7	49 0	- 0·6	49	0	5	1·05	+ 0·62	29·1	- 6·1	23	- 5	Deerness.
	a Stornoway	60	21st	44	26th	56·3	47·6	51·7	- 0·7	68	0	6	1·67	+ 1·10	28·4	- 14·2	23	- 11	Stornoway.
	a Castlebay, Barra Isd.	*60*	*22nd, 23rd*	*47*	*26th*	*56·7*	*49·0*	*52 6*	*- 2·6*	*74*	*0*	*4*	*0·44*	—	*40·2*	—	*33*	—	*Castlebay.*
	a Wick	60	21st	43	21st	56·0	46·6	51·0	- 1·2	63	0	7	1·90	+ 1·45	*	*	*	*	
	b, Main-land. *p* Strathpeffer.. ..	62	21st	40	21st	58·1	46·6	52·0	- 2·2	70	0	6	1·43	+ 0·98	17·7	- 19·3	14	- 16	Strathpeffer.
	p Glencarron .. S	60	21st	42	21st	57·1	45·9	51·1	- 1·9	64	0	7	0·91	- 0·07	*	*	*	*	
	p Fort Augustus S	61	23rd	38	21st	58·1	46·3	51·8	- 2·5	69	0	5	0·36	- 0·11	19·7	- 11·3	16	- 9	Fort Augustus.
	p Fort William S	63	21st, 24th	41	21st	60·8	46·9	53·4	- 1·9	80	0	5	0·38	- 0·49	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	66	20th	41	21st	59·6	45·5	52·1	- 2·6	71	0	7	0·73	+ 0·24	*27·4*	—	*22*	—	*Gordon Castle.*
	a Nairn	61	20th, 23rd	40	21st	58·0	46·3	51·7	- 2·8	68	0	7	1 06	+ 0 67	31·9	—	26	—	Nairn.
	a Aberdeen	62	20th, 21st	46	26th	58·1	48·9	53·2	- 0·6	78	0	5	0·95	+ 0·52	31·8	- 11·2	26	- 9	Aberdeen.
	a Balmoral .. S	60	20th	44	24th	55·3	46·9	50·8	- 1·5	62	0	5	1·05	+ 0·58	20·8	—	17	—	Crathes S.
	p Crieff .. .. S	64	20th	44	25th, 26th	59·4	46·4	52·5	- 3·5	74	0	7	1·50	+ 0 85	18·5	—	17	—	Balruddery
	a Leith	64	20th	46	23rd	58·3	50·1	53·9	- 2·0	83	0	6	1·06	+ 0·62	13·5	- 21·3	11	- 18	Edinburgh.
	a West Linton.. S	60	20, 22, 23, 24	42	23rd, 26th	57·5	46 0	51·4	- 1·7	66	0	7	1·42	—	*14·0*	—	*12*	—	*West Linton.*
	p Marchmont .. S	63	21st	44	23rd, 26th	57·4	46·0	51·3	- 2·3	65	0	4	1·55	+ 1·02	18·2	- 25·0	15	- 21	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	66	21st	46	23rd, 26th	57·9	48·6	52·9	- 1·6	76	0	7	1·63	+ 1·15	15·2	—	13	—	Cockle Park.
	a Shields	68	20th	45	26th	58;4	48·4	53·1	- 1·6	78	0	7	1·63	+ 1·15	*11·7*	*- 21·5*	*10*	*- 18*	*Newcastle.*
	a, North. *p* Durham	65	20th	45	23rd, 26th	58·2	47·5	52·5	- 3·2	74	0	6	1·82	+ 1·39	9·3	- 31·0	8	- 26	Durham.
	p Rounton .. M	69	20th	46	23rd, 26th	60·6	48·0	53·9	- 1·1	83	0	6	2·23	+ 1·77	*	*	*	*	
	p Scarborough.. M	69	20th	46	23rd	60·0	49·6	54·4	- 1·3	87	0	7	1·73	+ 1·31	15·4	—	13	—	Scarborough.
	p York	69	20th	45	23rd	61·7	50·1	55·5	- 2·1	95	0	7	1·68	+ 1·18	15·4	- 25·9	13	- 22	York.
	a Spurn Head ..	70	20th	49	26th	59·4	52·1	55·5	- 0·4	95	0	7	1·32	+ 0·96	*	*	*	*	
	b, South. *a* Lincoln	71	20th	46	26th	61·6	50·2	55·5	- 3·0	95	0	7	2·37	+ 1·91	18·3	—	16	—	Skegness.
	a Fulbeck	70	20th	46	26th	60·2	50·5	55·0	- 3·0	91	0	7	1·84	+ 1·40	15·6	—	13	—	Rauceby.
															37·6	—	*32*	—	*Lowestoft.*
	p Cromer	71	20th	47	23rd	63·3	50·8	56·6	+ 0·3	102	0	8	0·96	—	26·8	—	23	—	Cromer.
	p Hillington .. M	71	20th	47	23rd	62·2	50·7	56·1	- 1·6	99	0	7	2·32	+ 1·86	22·3	- 23·7	19	- 20	Hillington.
	a, North. *a* Yarmouth	71	20th	50	23rd, 25th	61·9	53·1	57·2	+ 0·4	106	0	5	0·86	+ 0·38	45·2	—	39	—	Yarmouth.
	a Norwich	71	21st	48	23rd, 24th	64·7	51·9	57·9	+ 0·9	111	0	5	1·34	—	*	*	*	*	
3. ENGLAND, E.	*p* Geldeston	71	20th	47	23rd	63·7	51·8	57·3	+ 0·1	107	0	5	1·34	+ 0·91	33·9	- 14·4	29	- 12	Geldeston.
	p Cambridge	70	20th	47	23rd	63·1	51·1	56·7	- 2·2	103	0	5	1·43	+ 0·95	30·1	- 16·3	26	- 14	Cambridge.
	a Felixstowe	*67*	*20th*	*51*	*25th, 26th*	*61·4*	*53·7*	*57·3*	*- 0·6*	*107*	*0*	*6*	*1·40*	—	*41·5*	—	*36*	—	*Felixstowe.*
	b, South. *a* Clacton-on-Sea ..	69	20th	50	26th	62·0	53·7	57·6	- 0·1	109	0	6	1·16	—	36·3	—	32	—	Clacton.
	a Rothamsted ..	67	20th	47	23th, 26th	60·9	50·5	55·3	- 2·2	93	0	7	0·94	+ 0·44	26·4	- 18·7	23	- 16	Rothamsted.
	a Shoeburyness ..	*68*	*20th*	*49*	*26th*	*63·1*	*53·1*	*57·8*	*- 2·1*	*111*	*0*	*5*	*0·91*	*+ 0·51*	*34·1*	—	*30*	—	*Southend.*
	p Tottenham	69	21st	50	24th	62·9	52·4	57·3	- 1·0	107	0	7	1·43	—	28·0	—	24	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	66	20th	43	23rd	58·7	47·2	52·6	- 3·1	74	0	7	2·86	+ 2·32	16·7	—	14	—	Harrogate.
	a Bawtry	72	20th	39	25th	63·1	48·3	55·2	- 2·7	92	0	6	1·56	+ 1·13	14·1	- 24·5	12	- 21	Worksop.
	p Buxton .. M	*65*	*20th*	*43*	*26th*	*57·4*	*46·9*	*51·8*	*- 1·6*	*69*	*0*	*6*	*2·21*	*+ 1·48*	*18·5*	—	*16*	—	*Buxton.*
	a, East. *a* Nottingham	69	20th	47	23rd, 26th	60·9	50·6	55·4	- 2·4	94	0	6	1·62	+ 1·16	23·2	—	20	—	Nottingham.
	p Birmingham, Edgbn	67	20th	43	26th	58·5	48·5	53·2	- 3·8	78	0	6	2·38	+ 1·88	15·3	—	13	—	Birmingham.
	a Raunds .. M	71	20th	44	22nd	62·5	48·7	55·1	- 3·0	92	0	6	1·39	—	*	*	*	*	
	a Oxford	68	20th	47	26th	61·1	51·4	55·9	- 2·8	97	0	7	1·61	+ 1·10	20·8	- 24·6	18	- 21	Oxford.
	a Cheadle .. M	66	20th	44	23rd	58·4	48·2	52·9	- 3·0	76	0	6	2·26	+ 1·66	16·1	—	14	—	Sheffield.
	b, West. *p* Shrewsbury	68	20th	44	23rd	60·9	48·9	54·5	- 3·2	88	0	7	1·68	—	*	*	*	*	
	a Hereford .. M	68	20th	44	26th	60·2	49·9	54·7	- 3·7	89	0	7	1·23	+ 0·73	*	*	*	*	
	a Cirencester	66	20th	42	26th	59·7	48·4	53·7	- 3·2	82	0	7	1·90	+ 1·36	17·9	- 27·5	16	- 24	Cirencester.
	a Bath	67	20th	44	26th	60·6	51·0	55·5	- 2·9	95	0	7	1·23	+ 0·69	22·0	—	19	—	Bath.
															40·0	—	*35*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	*p* Kew	72	21st	47	23rd	63·6	51·7	57·2	- 1·5	106	0	6	1·69	+ 1·19	27·1	- 18·3	24	- 16	Kew.
	a Marlborough ..	65	20th	42	26th	59·8	49·2	54·1	- 2·8	85	0	7	1·47	+ 0·99	17·3	- 25·0	15	- 22	Marlborough.
	a Margate	70	21st	50	23rd, 26th	63·5	52·4	57·6	- 0·7	109	0	7	1·00	+ 0·58	35·9	- 7·3	31	- 6	Margate.
	a Wisley, Surrey ..	68	21st	48	26th	61·9	51·7	56·4	- 3·3	101	0	7	1·66	—	30·8	—	27	—	Wisley.
	a Swarraton .. M	66	20th	48	25th, 26th	60·4	50·9	55·3	- 1·9	93	0	7	1·36	+ 0·86	39·0	—	34	—	Worthing.
	a Tunbridge Wells M	69	21st	47	26th	62·1	50·3	55·8	- 2·0	97	0	6	0·97	+ 0·47	34·9	- 11·8	31	- 10	Tunbridge Wells.
	a Dungeness	63	21st	49	26th	61·0	52·7	56·6	- 1·1	102	0	6	1·19	+ 0·85	43·4	—	38	—	Littlestone.
	p Hastings	67	21st	49	25th, 26th	62·1	51·9	56·6	- 1·5	102	0	7	1·01	+ 0·57	*41·7*	*- 11·6*	*37*	*- 10*	*Hastings.*
	p Southampton ..	67	20th	49	25th, 26th	61·4	52·0	56·4	- 3·9	101	0	6	1·59	+ 1·12	28·0	- 20·9	25	- 18	Southampton.
	a Ventnor	68	21st	49	26th	61·2	52·6	56·6	- 2·5	102	0	5	0·73	+ 0·28	34·1	- 11·3	30	- 10	Ventnor.
															48·7	- 3·1	43	- 3	Eastbourne.
LONDON	*a Westminster* ..	*69*	*21st*	*49*	*26th*	*62·3*	*53·3*	*57·5*	*- 1·9*	*109*	*0*	*7*	*2·01*	*+ 1·51*	*27·8*	*- 11·6*	*24*	*- 10*	*Westminster.*
	a Greenwich	*73*	*21st*	*48*	*26th*	*65·4*	*51·9*	*58·2*	*- 1·8*	*118*	*0*	*6*	*1·79*	*+ 1·32*	*30·1*	*- 16·8*	*26*	*- 15*	*Greenwich.*
6.	*p* Laudale	65	22nd	43	21st	61·3	46·6	53·4	- 2·3	80	0	4	0·95	+ 0·08	*	*	*	*	
	a Poltalloch .. S	65	22nd	42	20th, 21st	59·7	46·3	52·5	- 3·5	74	0	6	2·41	+ 1·71	*	*	*	*	
	a, SCOTLAND. W. .. *p* Glasgow	62	20th, 22nd	46	23rd, 26th	59·7	48·3	53·6	- 2·1	81	0	7	2·57	+ 1·97	18·0	- 19·7	15	- 16	Glasgow.
	p Rothesay .. S	65	20th	45	25th	59·9	48·0	53·5	- 2·7	81	0	7	2·74	+ 2·02	*	*	*	*	
	a Kilmarnock .. S	63	21st	43	25th	61·6	45·8	53·2	- 2·5	78	0	4	2·66	—	*11·6*	—	*10*	—	*Kilmarnock.*
	a Colmonell .. S	65	24th	46	21, 23, 25th	60·4	47·4	53·5	- 2·3	81	0	6	2·00	+ 1·42	*	*	*	*	
	p Dumfries .. S	65	20th	46	23rd	61·1	49·7	55·0	- 1·9	91	0	4	2·66	+ 2·12	*	*	*	*	
	b, ISLE OF MAN .. *p* Cally, Gatehouse S	67	24th	46	22nd, 23rd	59·9	47·8	53·4	- 2·7	80	0	6	1·76	+ 1·08	*	*	*	*	
	p Douglas	61	24, 25, 26th	47	26th	57·5	48 8	52·9	- 2·7	76	0	6	1·40	+ 0·79	25·1	- 25·7	21	- 22	Douglas.
															9·9	—	9	—	Hoylake.
7.	*p* Aspatria	63	21st	43	26th	59·0	48·1	53·2	- 2·3	78	0	7	1·61	+ 1·03	15·7	—	13	—	Aspatria.
	p Newton Rigg ..	63	20th	39	26th	59·7	45·4	52·1	- 2·6	71	0	6	1·99	+ 1·50	16·5	- 31·3	14	- 27	Newton Rigg.
	p Stonyhurst	63	20th	43	26th	59·2	48·5	53·5	- 2·9	81	0	7	1·46	+ 0·76	12·7	- 32·7	11	- 28	Stonyhurst.
	a, ENGLAND, N.W... *p* Blackpool .. M	65	21st	42	26th	60·7	48·0	53·9	- 3·1	83	0	6	1·59	+ 1·09	12·8	- 33·3	11	- 28	Blackpool.
	p M'nch'ster,Prestwich	67	20th	40	26th	60·3	48·6	54·0	- 2·7	84	0	7	1·44	+ 0·81	*14·1*	*- 25·1*	*12*	*- 21*	*Prestwich.*
	a Liverpool (Bidston)	67	21st	45	23rd	60·0	50·9	54·7	- 2·5	89	0	6	1·50	+ 0·97	*20·3*	—	*17*	—	*Liverpool.*
	a Hawarden Bridge ..	66	20th, 21st	44	23rd	60·4	50·3	55·0	- 2·9	91	0	6	1·76	+ 1·32	*10·1*	*- 37·7*	*9*	*- 32*	*Southport.*
															13·1	—	*11*	—	*Rhyl.*
	b, NORTH WALES .. *p* Llandudno .. M	66	21st	48	23rd, 26th	59·8	50·3	54·7	- 2·9	89	0	7	1·36	+ 0·61	12·8	- 34·4	11	- 29	Llandudno.
	a Holyhead	59	20th	48	26th	57·3	50·1	53·5	- 2·8	81	0	5	0·55	+ 0·05	6·4	—	6	—	Aberdovey.
	p Bettws-y-Coed ..	63	20th	46	23, 24, 26th	58·3	48·6	53·1	- 3·9	78	0	7	1·86	—	6·4	—	6	—	Bettws-y-Coed.
															8·4	—	7	—	Aberystwyth.
8.	*a*, SOUTH WALES .. *a* Llangammarch Wells	61	20th	44	26th	58·5	47·7	52·7	- 3·7	75	0	7	2·04	—	12·5	—	11	—	Llangammarch Wells.
	a Pembroke	60	25th	48	23rd, 24th	57·3	49·9	53·3	- 2·8	79	0	5	1·06	+ 0·60	35·9	- 16·5	31	- 14	Pembroke.
	a Cardiff	64	20th	48	22, 24, 26th	59·6	50·1	54·5	- 4·4	88	0	6	1·38	+ 0·77	*16·9*	—	*15*	—	*Cardiff.*
															35·2	*- 18·3*	*31*	*- 16*	*Tenby.*
	a Clifton	64	23rd	48	26th	60·0	51·1	55·2	- 3·7	92	0	7	3·11	+ 2·56	*15·1*	—	*13*	—	*Clifton.*
	a Shaftesbury .. M	62	20th	45	23rd, 26th	58·4	47·8	52·7	- 4·2	75	0	6	0·80	+ 0·25	*	*	*	*	
	a Arlington	60	23rd, 24th	46	22nd, 23rd	57·9	49·0	53·1	- 2·5	78	0	7	1·00	+ 0·27	41·5	- 9·5	36	- 8	Newquay.
	b, ENGLAND, S.W. .. *a* Cullompton .. M	66	20th	46	23rd	62·1	50·8	56·1	- 2·0	99	0	7	1·57	+ 1·07	16·7	- 28·7	15	- 25	Cullompton.
	a Portland Bill ..	61	25th	50	24th	58·4	52·3	55·1	- 2·1	92	0	6	0·80	—	*22·2*	—	*20*	—	*Weymouth.*
	p Plymouth	66	25th	48	21st	61·3	50·2	55·4	- 3·5	94	0	5	1·02	+ 0·52	31·7	- 17·1	28	- 15	Plymouth.
	p Falmouth	63	23rd	48	22nd	59·9	51·5	55·4	- 2·4	94	0	6	0·85	+ 0·29	52·0	- 0·4	46	0	Falmouth.
															27·8	*- 26·2*	*24*	*- 23*	*Torquay.*
9. IRELAND, N.	*a* Malin Head	58	21st, 24th	44	21st	56·4	48·3	52·1	- 2·1	71	0	5	1·09	+ 0·58	*	*	*	*	
	a, West. *a* Blacksod Point ..	59	20th, 22nd	47	21st	56·6	49·3	52·7	- 3·1	75	0	7	1·99	+ 1·38	*	*	*	*	
	p Markree Castle ..	63	20th, 22nd	41	21st	59·8	46·5	52·7	- 2·4	75	0	5	1·29	+ 0·53	28·6	- 10·2	24	- 9	Markree Castle.
	a Birr Castle	64	23rd	43	22nd	59·7	47·9	53·4	- 3·3	80	0	6	1·90	+ 0·45	*23·4*	*- 15·6*	*20*	*- 13*	*Birr Castle.*
	b, East. *p* Armagh	63	20, 24, 25th	45	24th, 26th	59·2	47·3	52·8	- 3·2	76	0	5	1·74	+ 1·16	14·3	- 25·4	12	- 22	Armagh.
	a Donaghadee	66	20th	46	21st	56·7	48·7	52·4	- 3·2	73	0	6	1·86	+ 1·33	*	*	*	*	
10. IRELAND, S.	*p* Dublin, City.. ..	64	20th	48	22nd	58·9	49·6	53·9	- 4·5	83	0	5	1·48	+ 1·04	15·9	- 29·7	14	- 25	Phœnix Park.
	a, East. *a* Kilkenny	65	25th	41	22nd	60·4	47·1	53·5	- 4·0	79	0	6	2·04	+ 1·48	*	*	*	*	
	a Waterford	63	20th	41	22nd	60·3	47·7	53·6	- 4·1	81	0	5	1·54	+ 0·89	*	*	*	*	
	a Birr Castle	64	25th	43	22nd	59·7	47·9	53·4	- 3·3	80	0	6	1·00	+ 0·45	23·4	- 15·6	20	- 13	Birr Castle.
	b, West. *a* Foynes	63	25th	46	23rd	58·8	49·6	53·9	- 3·6	83	0	6	1·88	+ 1·32	*	*	*	*	
	a Cahir .. .. M	64	25th	40	22nd	60·1	47·0	53·1	- 3·9	78	0	7	1·37	—	*	*	*	*	
	a Killarney	66	25th	43	22nd	61·1	49·3	54·8	- 2·1	90	0	6	1·51	+ 0.84	*	*	*	*	
	a Valencia	59	20, 24, 25th	48	22nd	58·1	50·7	54·1	- 3·0	85	0	7	0·99	+ 0·24	26·8	- 17·5	23	- 15	Valencia.
	a Roche's Point ..	64	25th	46	22nd	60·6	50·7	55·3	- 1·9	93	0	7	0·81	+ 0·17	25·0	—	22	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	61	20, 21, 24th	52	22nd, 23rd	60·0	53·0	56·3	- 1·7	100	0	5	0·90	+ 0·49	54·2	- 2·8	48	- 2	Scilly.
	a Jersey, St. Aubins ..	68	21st	50	23rd	62·4	52·6	57·2	- 2·1	106	0	5	1·04	+ 0·56	46·2	- 19·5	41	- 9	St. Helier's.
	a Guernsey	68	21st	50	24th	62·3	52·5	57·1	- 1·4	106	0	3	0·48	- 0·01	57·4	- 0·1	51	0	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 57·9 hrs.* (*- 14·1 hrs.*), *33 %* (*- 13 %*); *Bournemouth, 28·5 hrs., 25 %*; *Bognor, 43·1 hrs., 38 %*.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound ..	—	—	51·8	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	50·4
	Crathes	0	41	54·7	51·1
	Balmoral	0	42	—	—
	West Linton	0	38	—	—
	Marchmont ..	0	37	56·0	—
2.	Cockle Park	0	41	55·3	52·5
	Durham	0	43	—	—
	York	—	—	56·2	52·5
	Hull	0	42	56·7	51·1
	Lincoln	—	—	56·4	52·1
	Rauceby	0	43	58·3	53·2
3.	Norwich	0	41	—	—
	Yarmouth	—	—	62·3	56·6
	Lowestoft	0	47	59·8	54·9
	Cambridge	0	40	58·9	54·8
	Clacton-on-Sea ..	0	48	58·3	55·5
	Southend	0	47	59·9	—
	Tottenham	0	47	—	55·2
4.	Harrogate	0	41	53·2	51·3
	Huddersfield ..	0	41	56·7	50·6
	Buxton	0	36	53·9	49·6
	Sheffield	0	39	54·5	50·7
	Nottingham	0	38	56·4	52·9
	Birmingham	0	35	51·9	49·2
	Oxford	0	—	—	—
	Hereford	0	35	—	—
	Cirencester	0	36	—	—
5.	Margate	0	47	57·7	54·5
	Greenwich	0	40	—	—
	Westminster ..	0	45	—	—
	Kew	0	41	58·3	53·8
	Canterbury	0	45	57·0	54·8
	Tunbridge Wells ..	0	44	60·2	—
	Wisley	0	42	58·5	55·4
	Worthing	0	47	60·5	55·5
	Portsmouth	0	47	60·1	56·9
6.	Glasgow	0	41	—	—
	Rothesay	—	—	—	52·9
	Colmonel	0	42	—	—
	Dumfries	—	—	—	—
	Douglas	0	43	—	—
7.	Aspatria	0	41	—	—
	Newton Rigg ..	1	30	56·4	52·2
	Burnley	0	32	54·3	50·6
	Southport	0	37	58·4	56·1
	Manchester City ..	0	32	56·7	53·4
	Bettws-y-Coed ..	0	45	54·0	50·9
8.	Llangammarch Wells	0	33	54·6	51·1
	Cardiff	0	41	57·7	54·4
	Clifton	0	44	—	—
	Bath				
	Plymouth	0	41	58·5	—
9.	Armagh	0	37	58·0	54·5
	Markree	0	35	—	—
10.	Dublin, Trin. Coll. ..	?	?	57·1	54·9
11.	Guernsey, Brooklyn	0	46	60·7	57·6

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	50	49	49·1
	Kirkwall	54	52	52·9
	Wick	56	56	56·0
SCOTLAND, E.	Cromarty	54	51	52·6
	Pennan Bay	54	52	52·6
	Aberdeen, Cove Bay ..	54	50	52·1
ENGLAND, N.E.	Burnmouth, Berwick ..	50	49	49·2
	Scarborough	53	48	50·9
ENGLAND, E.	Shipwash Lightship ..	56	55	55·8
	Margate‡	60	58	58·1
ENGLAND, S.E.	Eastbourne‡	59	58	58·4
SCOTLAND, W.	Lamlash	54	52	53·3
	Ballantrae	55	54	54·7
ENGLAND, N.W.	Port Erin	55	51	52·2
ENGLAND, S.W.	Newquay	58	58	58·9
	Plymouth‡	57	55	56·0
	Salcombe	56	54	55·2
IRELAND, N.W.	Sheephaven	58	58	58·0
	Teelin	58	55	56·2
IRELAND, S.W.	Cleggan	60	53	56·4
	Seafield	61	56	58·9
IRELAND, E.	.. ..			

‡ Only one observation each day.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11
No. of Kites	2	2	1	1	2	1	1	1	1	1	1
Area of Surface (sq. metres) ..	9·3	15	7	7	13	7·5	5·5	7	7·5	8	7
Length of Wire (metres)	2,500	2,700	1,600	1,800	2,500	2,000	1,800	1,900	450	950	1,100

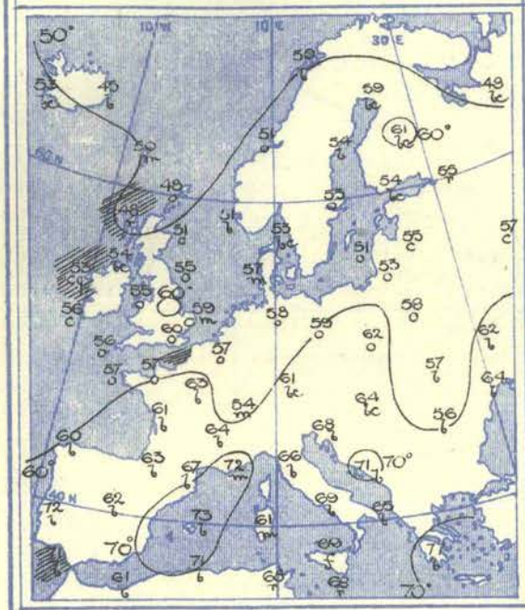
ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1913.	Station.	Wind Direction (in Degrees, 90° = E, 180° = S, 270° = W, 360° = N) and Velocity, Metres per Second.																	
			250 metres.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres	4,000 metr's.	4,500 metr's.	5,000 metr's.	5,500 metr's.	6,000 metres.	7,000 metr's	8,000 metr's.	9,000 metr's.	10,000 metr's.	11,000. metres	12,000 metr's.	13,000 metres.
1	May 31st, 12.13 p.m.	Ditcham Park, Petersfield,	160°, 5	175°, 10	185°, 9	200°, 4·5	235°, 7·5	250°, 11	230°, 11	225°, 13·5	230°, 13											
2	June 1st, 10.23 a.m.	Ditcham Park, Petersfield,	20°, 9	25°, 14	105°, 5·5	150°, 9	175°, 9·5	190°, 9														
3	June 3rd, 12.5 p.m.	Ditcham Park, Petersfield,	40°, 10	45°, 14	95°, 12																	
4	June 3rd, 12.59 p.m.	Ditcham Park, Petersfield,	35°, 15 Ground.	45°, 15·5	95°, 10	110°, 7·5	100°, 8	105°, 9	115°, 8	145°, 7												
5	June 3rd 7 a.m.; 1 p.m. and 7 p.m.	Pyrton Hill, Oxon,	45°, 7	45°, 14																		
6	June 22nd, 6.10 p.m. to 6.16 p.m.	Howard Estate, Glossop.	180°, 2	180°, 4																		

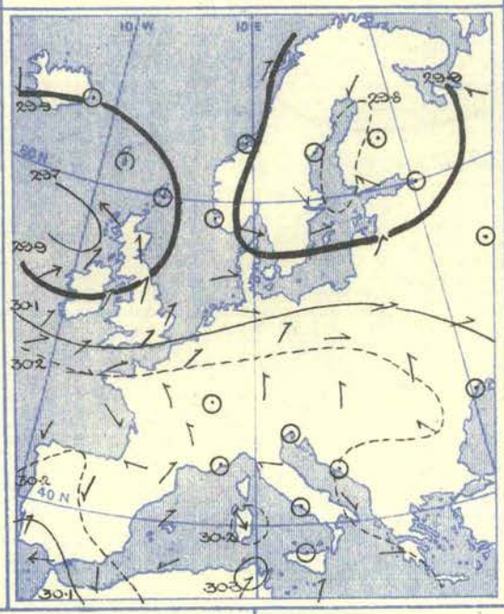
NOTES.—Nos. **1, 2, 3.**—Pilot Balloon ascents, one theodolite, rate of ascent assumed.
2.—Clouds showed that somewhat similar conditions of wind continued till evening.
3.—At 1,150 m., 120°, 7.
4.—*Ballon sonde*; rate of ascent of 2·7 metres per second assumed. Lost in a higher level of clouds than No. 3.
5.—Registering balloon, three ascents. On each occasion balloon entered clouds after about 3 minutes.
6.—Pilot balloon. Heavy thunder showers at intervals. Light breeze. Clouds Ni. and Cu. At 760 m., 180°, 7. At Ground level, Temp. 281°, Humidity 96%. At 100 m. above ground 180°, 3.

Sunday, 20th June, 1909.

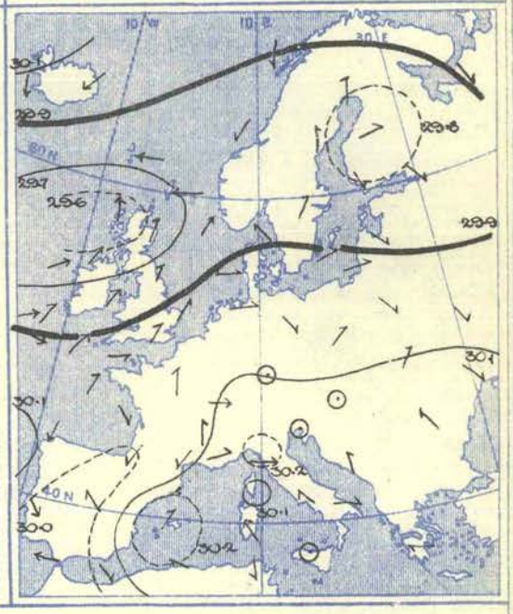
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater part of our area, but overcast or very cloudy in these Islands, and also in central Europe, with rain in a few localities. Rain also falling at St. Petersburg, Tunis, and Malta. Rain falling later in most parts of the United Kingdom and in the west of France, with thunderstorms in places. Rain falling in central Russia and at Stockholm also.

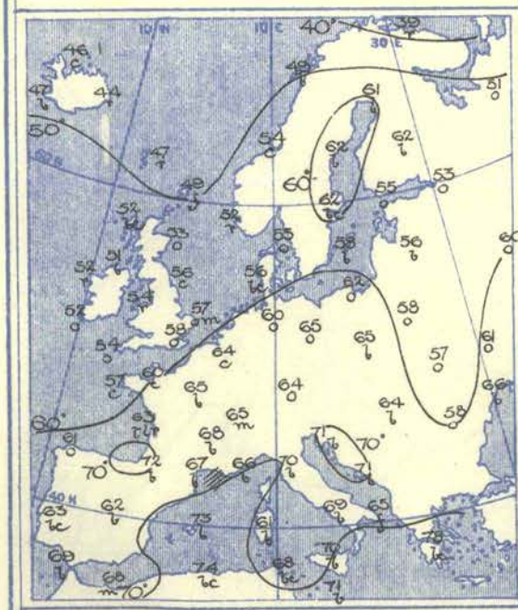
Temperature showing no decided change. Readings in morning ranging from nearly 80° in Greece and above 70° in some other regions to about 60° in central Europe, and to below 50° in the north of Scotland and at Archangel. Maxima during day about 60° in the north of this country, and about 70° in the south-east and in the Netherlands and the north of France. Thermometer rising to 93° at Nemours, 86° at Madrid, and about 80° at several other southern stations.

Wind in morning South-Westerly to Southerly over England and Ireland, and Southerly to South-Easterly in Scotland. Light and rather variable airs prevailing over the southern half of our area, and a very light and somewhat irregular cyclonic circulation in northern Europe. South-Westerly to Southerly current spreading to Scotland later, and some increase in force taking place over England and northern Ireland. No great change occurring elsewhere, but a high wind from East setting in at San Fernando.

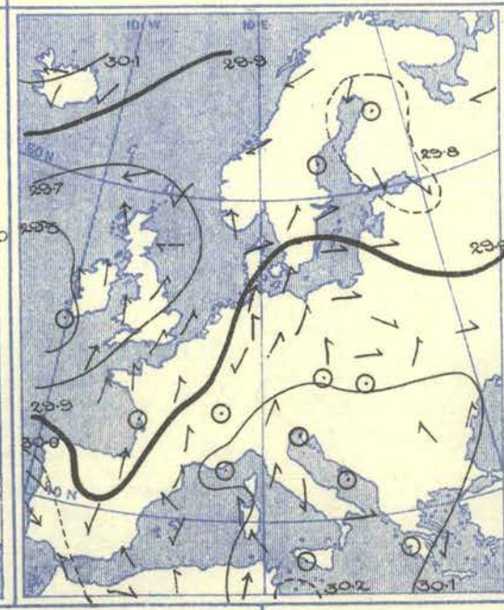
Barometer in morning above 30·2 ins. over most of central and much of southern Europe; below 29·9 ins. in a large shallow depression covering Scandinavia and Finland, and below 29·7 ins. in a disturbance off the north-west of these Islands. Pressure decreasing steadily during day over the United Kingdom, and depression extending much further to the eastward. Barometer rising somewhat in Iceland.

Monday, 21st June, 1909.

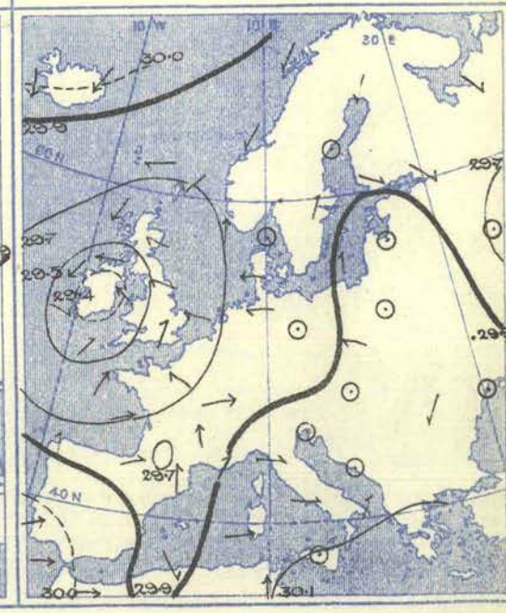
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy to overcast in most parts of these Islands, with rain at some western stations, and rain falling at Skudesnaes and Thorshavn. Fair to fine and bright over most other regions, but a thunderstorm in progress at Rochefort. About 1·5 in. of rain later in the north-west of Ireland, and considerable amounts in other parts of the United Kingdom, as well as in many parts of France. Thunderstorms occurring in some French and English localities.

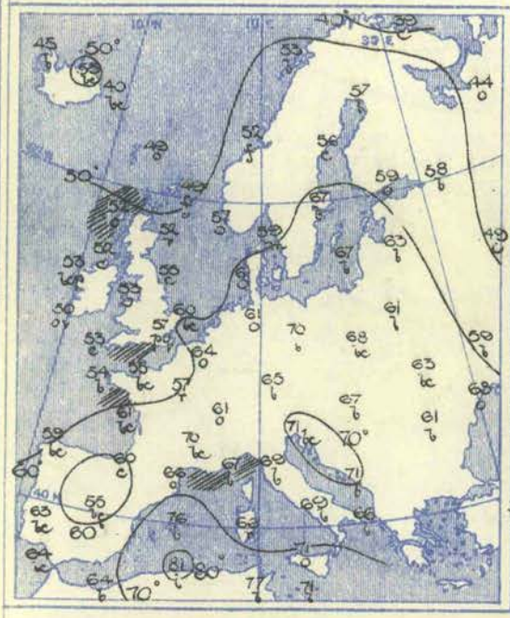
Temperature changed little as a whole, risen in Sweden. Readings in morning between 55° and 58° in England, above 60° in several parts of northern and central Europe, and 70° or rather higher in the south. Maxima during day below 65° in most parts of these Islands, but 70° or above in Sweden, and above 80° at some German stations and over a large portion of southern Europe. Thermometer rising to 95° at Algiers and La Calle, and to 91° at San Fernando.

Wind in morning mainly Southerly over these Islands and their vicinity, and Easterly or North-Easterly over the Icelandic region. Light and rather variable over the eastern half of Europe. A complete cyclonic circulation setting in over this country by evening and blowing freshly to strongly on parts of our western coasts. A high wind from the South-Eastward blowing at Toulouse.

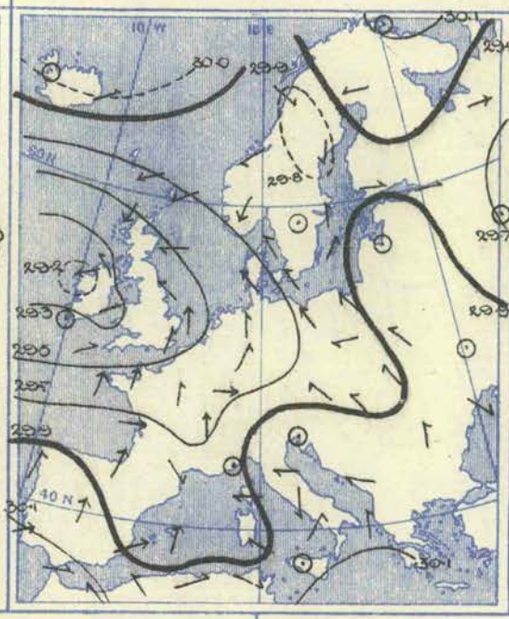
Barometer in morning above 30·1 ins. in the north of Iceland and also over a large part of south-eastern Europe. Below 29·8 ins. in a shallow depression over Finland, and below 29·5 ins. in a large system off the west of Ireland. A cyclonic centre appearing over the west of these Islands by evening, and barometer falling decidedly over the whole Kingdom except the far north. Finnish depression moving south-eastwards towards central Russia.

Tuesday, 22nd June, 1909.

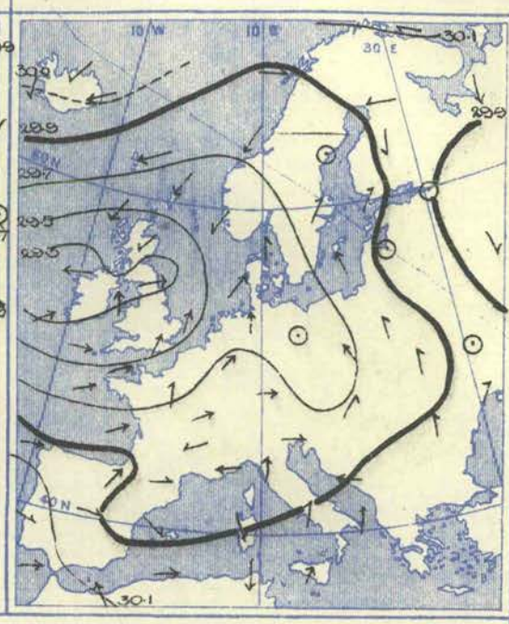
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater portion of our area, but very cloudy or dull in most parts of France and these Islands, with rain or passing showers in several localities. Rain also falling at Cagliari. Rain experienced later over the United Kingdom and the greater portion of the Continent; amounts large at several of our own stations and in certain parts of France and Switzerland, and also at Prague. Thunderstorms occurring in various English and French localities, as well as at Bilbao.

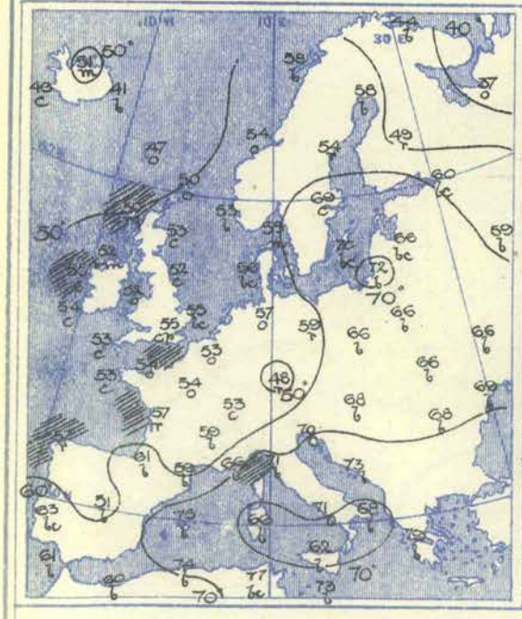
Temperature fallen in most regions. Morning readings below 55° over most of this country, and below 60° in several parts of France, but as high as 70° at Berlin, above that figure at some Mediterranean stations, and as high as 81° at Algiers. Thermometer below 50° in the extreme north-east of our area. Maxima during day below 60° over the greater portion of these Islands, but between 70° and 80° in most Continental regions, 90° at Palermo and Athens, and 95° at Tunis.

Wind in morning showing a well marked cyclonic circulation over these Islands and their neighbourhood, the South-Westerly current blowing freshly or strongly over the Channel. No decided or general wind current in the east and south of our area. Wind increasing to a fresh or strong breeze later on some shores of the Mediterranean, and to a high wind from North at Archangel.

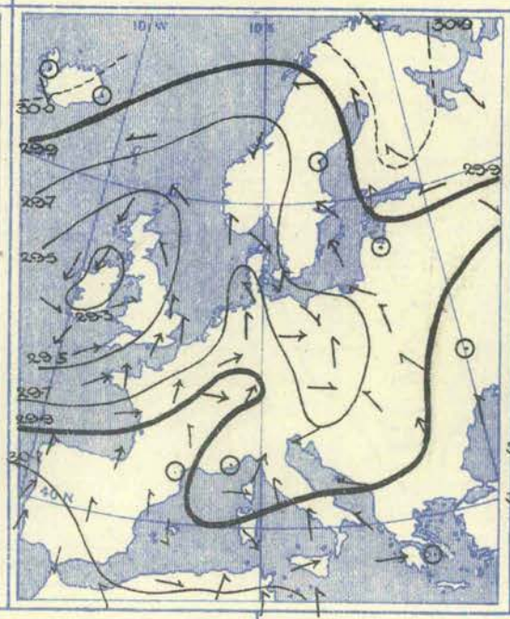
Barometer in morning above 30·1 ins. both in the extreme north and the extreme south of our area; below 29·2 ins. in a large cyclonic system having its minimum over the north-west of Ireland. Relatively low in other systems over Scandinavia, Russia, and the western portion of the Mediterranean. Main depression undergoing considerable modification in form and extending eastward to the north-east of England during day. Pressure increasing over the English Channel and also in the north-west of Ireland.

Wednesday, 23rd June, 1909.

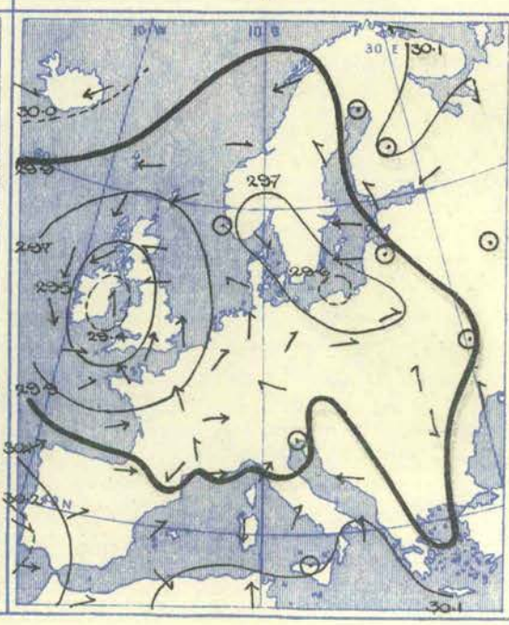
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the Mediterranean region and Russia, and in a few districts elsewhere, but very cloudy or overcast generally, with rain in several parts of these Islands and in some localities scattered about the Continent. Rain later throughout these Islands and over a large part of the Continent, with thunder and lightning at several of our own stations.

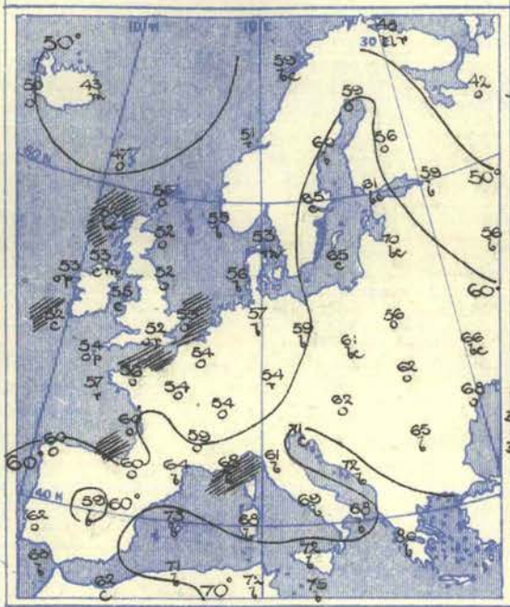
Temperature fallen over France and central Europe, changed little over this country. Morning readings nearly 80° in Greece and Tunis, above 70° in the south generally, and also at Memel, 70° at Wisby, and 69° at Stockholm. Below 55° in nearly all parts of the United Kingdom, below 50° at Liverpool, and below 40° at Archangel. Maxima during day very little above 60° at any of our own stations, but above 70° over the major portion of the Continent, and above 80° at some southern stations. Thermometer rising to above 100° in central Algeria.

Wind in morning circulating cyclonically around these Islands and also around the Gulf of Genoa, and a rather irregular cyclonic circulation prevailing over central Europe. Light or moderate in force as a whole, but fresh or strong in the Hebrides, as well as in some parts of southern Europe. Northerly current increasing to a strong breeze on our most western coast later, and a gale from West setting in on the coast of Corsica.

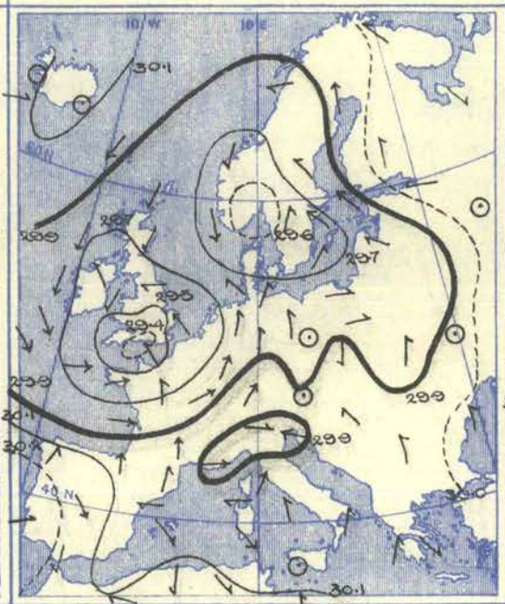
Barometer in morning above 30·1 ins. in the far south of our area, and nearly as high in the far north. Below 29·3 ins. in a depression over the west of these Islands, and relatively low in other systems less well marked lying over the Gulf of Genoa and central Europe. Not much change occurring in the general distribution of pressure during day. Depression over this country moving very slightly in a south-easterly direction.

Thursday, 24th June, 1909.

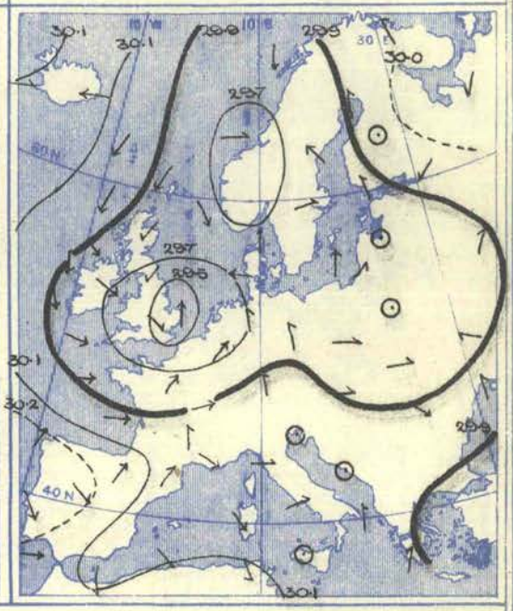
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning very unsettled over these Islands and their neighbourhood, with rain or passing showers in several places. Fine and bright over the greater portion of Russia, and also over the Mediterranean region. Rain later in most parts of this country, with thunderstorms in places; 0·75 in. at Nottingham and 0·87 in. in London. Rain falling in most parts of France and central Europe; largest measurement, about 1·25 in., at Lemberg.

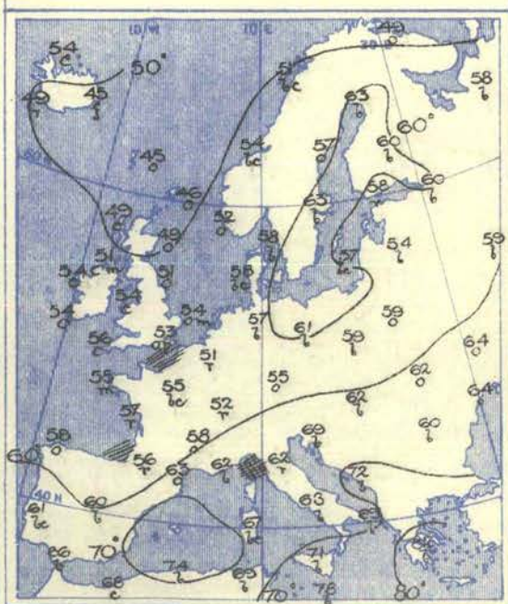
Temperature fallen in most regions. Morning readings about 52° in most parts of these Islands, and below 60° at many French and German stations; above 60° in southern Sweden and in nearly all places in the south of Europe, and above 70° in Greece and at several Algerian stations. Maxima during day below 60° in most parts of these Islands, and rather low in the north of France and the Netherlands, but above 70° in Sweden and at most places in the central and southern countries, and above 80° in various localities.

Wind in morning showing two main cyclonic circulations, one over these Islands and their neighbourhood, and the other over Scandinavia. Fresh to strong in force from several points in this country, and blowing a gale from the South-Eastward in the Gulf of Finland. Light or moderate and rather variable breezes prevailing over the south of our area. No general change later, but Westerly wind increasing to a strong gale at Havre.

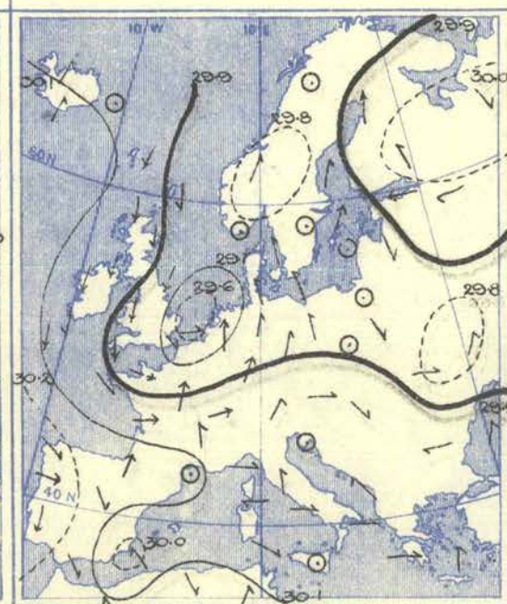
Barometer in morning above 30·2 ins. in the west of the Spanish Peninsula, and above 30·1 ins. in Iceland; below 29·4 ins. in a depression over the south and south-east of England, and relatively low in other systems over the south of Norway and the north of Italy. English disturbance moving very slowly north-eastwards during day and decreasing a little in intensity. Norwegian depression apparently becoming less deep also. No important change in the general distribution.

Friday, 25th June, 1909.

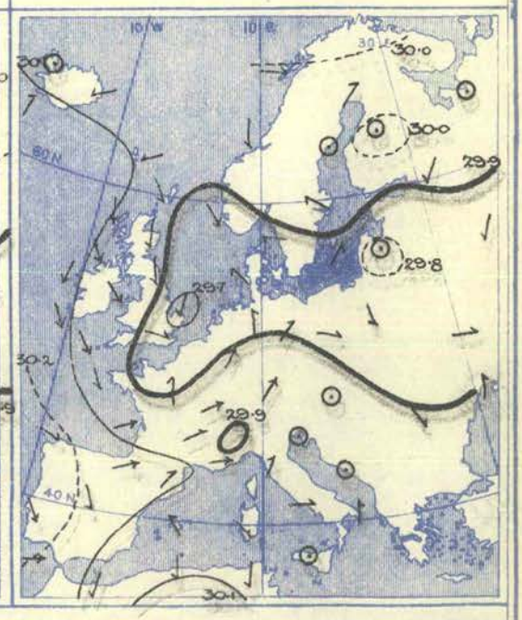
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning dull and unsettled over these Islands and the regions immediately surrounding, with rain in several localities. Fair to fine and bright in most other regions, but rainy in the south-west of France, and also at Florence and Hangö. Rain later in nearly all parts of the United Kingdom, and at many stations over the western half of the Continent. Thunder at some places in the east of England, and also at Fanö and Lyons.

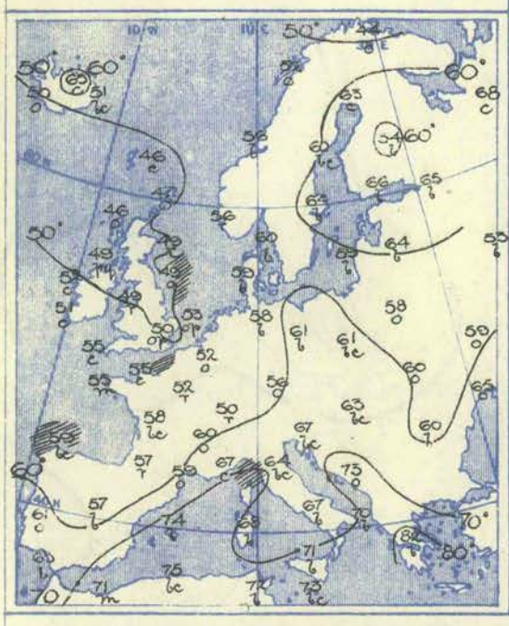
Temperature changed little generally. Readings in morning rather above 80° in Greece, 78° at Palermo, about 70° at some other southern stations, and about 60° in the central countries, Finland, and Sweden. Very little above 50° over the British Islands, and below that figure in north Scotland. Maximum during day only 55° in London, and below 60° in most parts of the Kingdom. Thermometer rising to nearly 80° at Haparanda, and to between 70° and 80° in the central and southern countries generally; highest readings, about 90° at Athens and Patras.

Wind in morning still showing a cyclonic circulation over these Islands and the North Sea; light or moderate generally, but fresh in places, and high at Frankfurt. Light to moderate winds from various directions prevailing over the south of our area. No change of importance during day.

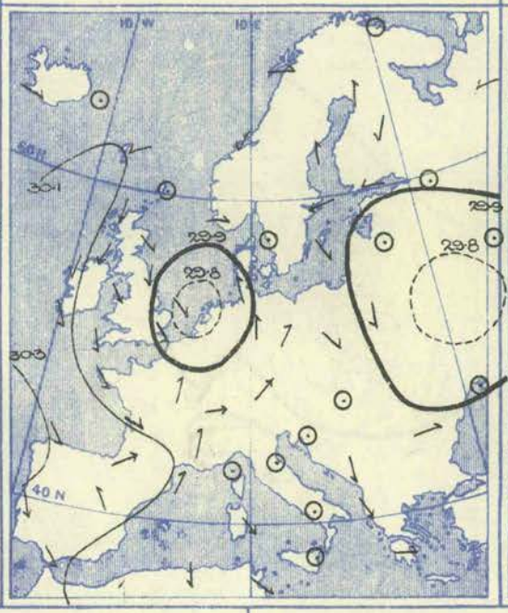
Barometer in morning above 30·2 ins. in Portugal, and relatively high in Iceland and the far north of Russia. Below 29·6 ins. in a depression having its minimum off the coast of Lincolnshire. Feeble disturbances existing over Scandinavia, the south-east of Spain, and Corsica. Depression over North Sea becoming less deep during day without materially changing its position. No modification in the general distribution of pressure; increasing over these Islands and their immediate neighbourhood.

Saturday, 26th June, 1909.

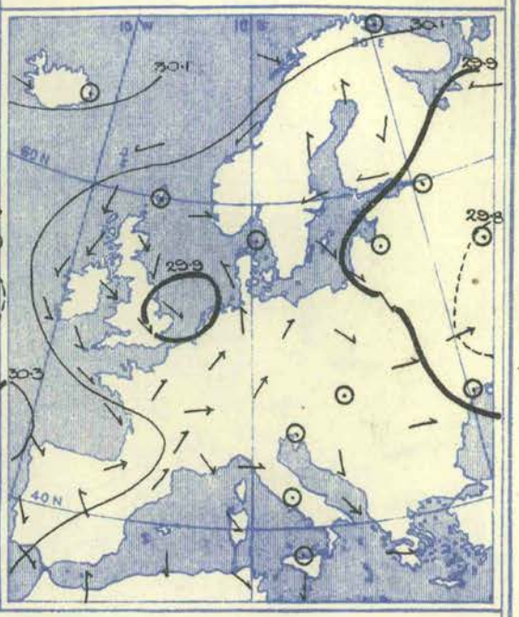
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast or very cloudy over this country and the nearer regions of the Continent, with rain in several localities. Fair to fine and bright in most other parts of our area, but rainy in the south-west of France and also at Neu-Fahrwasser, Prague, and Vienna, and overcast in southern Russia. Nearly an inch of rain falling in London later, and considerable amounts in other parts of this country, as well as in France, the Netherlands, and at Turin. Thunder occurring at Liverpool and Lyons.

Temperature showing little change. Morning readings 50°, or rather below, over the greater part of the United Kingdom, and very little higher over most of France and the Netherlands. Slightly above 80° in Greece, and about 70° in the south generally, and also in the far north of Finland and Russia. Maxima during day below 60° at most of our own stations, but above 70° in many northern districts of Europe, and also in the central and southern countries, and above 80° in places.

Wind in morning showing a well marked cyclonic movement over our Islands and their neighbourhood, the Northerly current blowing freshly at some stations in England and Wales. A very feeble cyclonic movement prevailing over Russia, and light variable airs over the Mediterranean region. No important change during day.

Barometer in morning between 30·3 ins. and 30·4 ins. between Spain and the Azores; below 29·8 ins. in a depression centred between the English and Dutch coasts, as well as in another system over Russia. A shallow secondary disturbance lying over the Gulf of Genoa. Depression off our east coast returning to England again during night, but little modification taking place in the general distribution of pressure.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). *See* also p. 204.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	June 20th, 10.0 a.m. to 12.35 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	289° 95% 250°, 6	286° 95% 255°, 12	284° 90% 260°, 14	281° 80% 270°, 14	278° 80% 270, 15			278·5° 80% 260°, 16	1,580	Overcast to clear. Temp. and wind direction irregular. Temp. rose on the ground and fell at 1,500 m. during the ascent. Wind backed at the end.
2	June 21st, 12.40 p.m. to 4.55 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 81% 164, 6	286° 84% 164°, 8	284° 84% 165°, 9	280° 85% 167°, 13	276° 85% 170°, 14	273° 87% 170°, 20		271° 87% 170°, 23	2,200	Two kites on one wire. Dull and wet at first; overcast later. Moderate breeze. Clouds, N. and Cu.-N. 10. High wind velocity at 2,000 m.
3	June 22nd, 10.15 a.m. to 10.56 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	287° 80% 220°, 7	286° 80% 220°, 12	283·5° 90% 220°, 14	281° 120% 220°, 15				280° 100% 220°, 15	1,170	Overcast. Thunder showers later. Clouds at various heights above 500 m.
4	June 22nd, 7.5 p.m. to 8.22 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	285° 75% 220°, 6	283·5° 220°, 12	281° 230°, 14	277° 230°, 16	273·5° 230°, 16				1,500	Various types of high clouds. Air very clear.
5	June 23rd, 10.30 a.m. to 1.19 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	286° 77% 185°, 6	285° 77% 184°, 9	285° 76% 188°, 10	280° 80% 190°, 15	275° 82% 190°, 16			273° 75% 185°, 17	1,850	Two kites on separate wires. Overcast. Heavy thunder showers at intervals. Moderate breeze. Clouds, Cu. and Cu.-N. 6 to 10.
6	June 24th, 9.5 a.m. to 10.53 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 86% 40°, 6	282° 87% 43°, 8	281° 88% 45°, 10	276° 94% 58, 14	273° 95% 63°, 15			272° 94% 70°, 14	1,750	Dull and wet. Heavy thunder showers. Moderate breeze. Clouds, N. and Cu.-N. 10.
7	June 25th, 1.54 p.m. to 3.3 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281° 96% 5°, 9	280° 97% 7°, —	279° 97% 8°, —	276° 98% 15°, —	274° 99% 24°, —			274° 99% 24, —	1,500	Dull and wet. Continuous rain during flight. Fresh breeze. Clouds, N. 10.
8	June 25th, 10.40 a.m. to 11.40 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	284° 100% 315°, 7	283·5° 100% 315°, 14	282° 100% 320°, 16	279·5° 100% 315°, 16				277·5° 100% 315°, 16	1,400	Overcast. Raining hard. Irregular wind. Bottom of cloud layer 600 m. on ascent, 400 m. on descent.
9	June 26th, 9.33 a.m. to 9.58 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282° 75% 326°, 4	281° 76% 330°, 6	280° 76% 331°, 8					279° 77% 337°, 11	650	Overcast and dull. Gentle breeze. Clouds, N. 10.
10	June 26th, 10.0 a.m. to 10.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity . Wind	285·5° 80% 290°, 5	284° 80% 290°, 9	282° 90% 290°, 9					280° 95% 290, 9	750	Detached clouds. Convection currents. The wind dropped and the kite could not be kept up.
11	June 26th, 10.0 a.m. to 11.0 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	288° 75% 310°, 4	287° 75% —°, 8	283° 85% 340°, 9					280° 85% 350°, 9	700	Overcast. Convection currents.

63, Victoria Street, London, S.W. *June 30th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 26. TWENTY-SIXTH WEEK, SUNDAY JUNE 27TH TO SATURDAY JULY 3RD, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was rainy in all districts during the early days of the week, but afterwards improved very materially, although most parts of the Kingdom experienced a good deal of cloud. Thunderstorms or thunder only occurred in several localities on Tuesday and Wednesday, and also in a few places scattered over a wide area on Sunday and Saturday.

Temperature was again below the average, the deficit amounting to about 4° in England E. and the Midland Counties, and to more than 5° in England S.E. The highest of the maxima were recorded at most stations on Friday or Saturday, and ranged from 76° in Ireland S., and 75° in Ireland N., England S.W., and England E. and Scotland E. to 71° in Scotland N. and the English Channel. Early in the week the maxima were below 60° in many parts of the Kingdom. The lowest of the minima, which occurred on rather irregular dates, varied from 35° in Scotland E., England N.E., and England S.W., to 43° in England E. and Ireland S., and to 44° in the English Channel. The lowest grass temperatures reported were 25° at Llangammarch Wells, 30° at Balmoral and Birmingham, 31° at Crathes, Kew, and Markree Castle, and 33° at Greenwich and Armagh.

Mean Temperature of the Sea.—On almost every part of the coast the water was colder than during the corresponding week of last year, the difference amounting to more than 3° at several stations in the east and north-east. The means for the week ranged from about 60° at Eastbourne, 59° at Seafield, and 58° at Margate, Newquay, Plymouth, and Sheephaven, to 50° at Lerwick and to 49·4° at Burnmouth.

Rainfall was less than the average in all districts except England S.E.,, the deficit being rather large in most parts of the Kingdom.

Bright Sunshine was rather deficient over most parts of Great Britain, but just equalled the normal in England N.W., and exceeded it in the English Channel and England S.W. and also in Ireland. The percentage of the possible duration ranged from 63 in the English Channel and 50 in England S.W. to 32 in Ireland N. and to between 25 and 30 in the north-east of Great Britain.

Barometer and Wind.—A very decided change took place in the general distribution of pressure. Until Tuesday shallow low-pressure systems were situated over this country or its immediate neighbourhood, while the barometer was highest in the far north-west and south-west of our area. By Wednesday morning, however, an anticyclone had begun to move south-eastward from the Icelandic region, and continuing slowly on the same course it formed a junction with the high-pressure system in the south-west, and by the end of the period a long anticyclonic band extended from the Azores across the Bay of Biscay to central Europe and the Baltic, while a large depression lay over Iceland and its vicinity. The wind, after being mainly Northerly in these islands, consequently shifted to the Southward or South-Westward, the change taking place late on Thursday on our most western and north-western coasts, but not until Friday night in the south-east of England.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 180.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Very deficient	Very deficient	Very deficient	Moderate	Deficient	Deficient	Moderate	Moderate	Deficient
	Rainfall ...	Light	Light	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Moderate	Light	Moderate
	Sunshine ...	Moderate	Moderate	Scanty	Moderate	Scanty	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 4 weeks from June 6th, 1909.	Warmth ...	**0***3	**0***3	**0***4	**0***3	**0***3	**0***4	**0***2	**0***3	**0***3	**0***2	**0***2	**0***3
	Rainfall ...	**1***3	**1***2	**1***3	**1***1	**1***1	**1***1	**1***2	**1***2	**1***2	**1***2	**1***3	**1***2
	Sunshine ...	**0***1	**1***1	**0***3	**0***3	**0***3	**0***2	**1***1	**1***1	**2***1	**0***1	**0***2	**2***0

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	**4***4	**4***6	**4***4	**1***3	**5***4	**2***4	**3***3	**2***4	**3***3	**2***3	**3***3	**3***3
	Rainfall ...	**2***7	**3***6	**2***8	**3***6	**4***7	**3***7	**4***5	**5***5	**3***8	**5***8	**2***6	**2***6
	Sunshine ...	**4***3	**6***4	**5***4	**5***4	**7***4	**6***2	**5***3	**7***3	**7***3	**4***3	**5***4	**5***4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	**10***2	**8***3	**10***1	**7***2	**8***2	**6***2	**10***2	**7***2	**6***2	**10***2	**9***2	**10***2
	Rainfall ...	**5***6	**5***5	**3***6	**2***5	**2***5	**1***7	**5***5	**2***5	**2***5	**3***6	**4***4	**2***6
	Sunshine ...	**3***3	**4***6	**2***4	**4***3	**3***4	**8***1	**1***7	**6***4	**4***3	**2***5	**1***6	**7***2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	**3***2	**3***2	**2***7	**4***6	**2***6	**4***6	**3***2	**4***6	**4***6	**5***1	**4***2	**5***5
	Rainfall ...	**2***6	**3***5	**1***6	**3***7	**3***7	**4***8	**4***3	**2***6	**4***8	**3***4	**3***6	**5***8
	Sunshine ...	**6***2	**5***3	**3***3	**4***6	**4***6	**5***4	**4***2	**8***1	**6***2	**4***5	**2***4	**6***3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	**4***3	**5***7	**6***2	**4***1	**6***2	**3***4	**6***1	**6***3	**4***4	**6***2	**4***4	**5***1
	Rainfall ...	**3***5	**8***2	**7***5	**7***4	**6***4	**6***3	**5***4	**6***5	**5***4	**5***4	**6***4	**5***4
	Sunshine ...	**2***2	**3***4	**4***5	**5***5	**6***4	**6***4	**5***4	**7***4	**6***4	**5***5	**6***3	**5***5

8006/450 Wy. & S. Ltd. 7—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-SIXTH WEEK—June 27th to July 3rd, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff.* from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	71	40	59·5	46·9	52·7	− 1·6	75	− 11	0	0	3	− 1	0·35	−0·38	31	− 1	25	− 1
Eastern																		
1. SCOTLAND, EAST	75	33	60·9	46·5	53·2	− 2·8	78	− 20	0	0	3	0	0·20	−0·35	37	− 5	30	− 4
2. ENGLAND, N.E.	73	35	61·8	47·8	54·3	− 3·3	86	− 23	0	0	2	0	0·21	−0·23	30	− 16	26	−13
3. ENGLAND, EAST	75	43	63·5	48·4	55·4	− 4·2	94	− 29	0	0	3	+ 1	0·32	−0·05	44	− 7	38	− 6
4. MIDLAND COUNTIES	73	38	65·1	46·6	55·2	− 4·0	92	− 29	0	0	3	0	0·26	−0·22	38	− 8	33	− 7
5. ENGLAND, S.E.	73	39	62·9	47·9	54·9	− 5·3	90	− 37	0	0	4	+ 1	0·47	+0·10	44	− 8	39	− 7
Western																		
6. SCOTLAND, WEST	74	38	64·7	48·7	56·1	− 0·8	99	− 5	0	0	3	0	0·59	−0·13	46	+ 4	39	+ 3
7. ENGLAND, N.W.	74	39	63·8	48·6	55·7	− 2·5	96	− 18	0	0	3	− 1	0·47	−0·12	44	0	38	0
8. ENGLAND, S.W.	75	35	64·5	48·2	55·8	− 3·0	97	− 21	0	0	2	0	0·21	−0·30	58	+ 9	50	+ 8
9. IRELAND, NORTH	75	39	63·7	48·8	55·8	− 1·3	97	− 9	0	0	3	− 1	0·55	−0·09	37	+ 2	32	+ 2
10. IRELAND, SOUTH	76	43	66·4	50·1	57·7	− 0·8	110	− 5	0	0	3	0	0·22	−0·38	42	+ 3	36	+ 2
11. ENGLISH CHANNEL	71	44	64·3	51·2	57·3	− 2·5	107	− 17	0	0	2	− 1	0·13	−0·27	70	+ 11	63	+10

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 4 Weeks, June 6th to July 3rd, 1909.

0. SCOTLAND, NORTH	71	35	*	*	*	*	263	− 43	0	− 2	14	− 1	1·75	−0·85	128	− 17	26	− 3
Eastern																		
1. SCOTLAND, EAST	75	31	*	*	*	*	276	− 67	0	− 1	13	+ 1	1·67	−0·37	160	− 8	33	− 2
2. ENGLAND, N.E.	73	33	*	*	*	*	306	− 68	0	0	13	+ 2	2·20	+0·49	114	− 62	24	−13
3. ENGLAND, EAST	75	35	*	*	*	*	342	− 84	0	0	14	+ 3	2·06	+0·20	141	− 51	31	−11
4. MIDLAND COUNTIES	73	33	*	*	*	*	324	−100	0	0	14	+ 3	2·49	+0·50	119	− 55	26	−12
5. ENGLAND, S.E.	73	35	*	*	*	*	349	−102	0	0	14	+ 3	2·16	+0·42	153	− 44	34	−10
Western																		
6. SCOTLAND, WEST	74	32	*	*	*	*	321	− 56	0	0	13	0	2·99	+0·33	188	+ 10	39	+ 2
7. ENGLAND, N.W.	74	32	*	*	*	*	321	− 83	0	0	12	− 1	2·19	+0·11	163	− 21	35	− 4
8. ENGLAND, S.W.	75	30	*	*	*	*	352	− 74	0	0	12	0	2·06	−0·03	191	− 2	42	− 1
9. IRELAND, NORTH	75	33	*	*	*	*	330	− 46	0	0	13	− 2	2·29	−0·17	140	− 17	30	− 4
10. IRELAND, SOUTH	76	36	*	*	*	*	378	− 40	0	0	12	− 1	1·76	−0·58	146	− 26	32	− 6
11. ENGLISH CHANNEL	71	42	*	*	*	*	410	− 38	0	0	8	− 5	1·05	−0·61	258	+ 30	58	+ 7

THE YEAR.—Aggregates, &c., for the Period of 26 Weeks, January 3rd to July 3rd, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	692	− 62	535	− 22	117	− 2	18·18	−5·26	625	− 14	27	− 1
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	754	−120	673	+ 53	100	+ 4	15·93	+2·63	704	− 32	31	− 1
2. ENGLAND, N.E.	81	14	*	*	*	*	904	− 22	580	+105	87	− 1	11·55	+1·36	771	− 7	34	0
3. ENGLAND, EAST	82	12	*	*	*	*	1011	−106	554	+ 33	89	+ 3	10·19	+0·01	905	+ 78	49	+ 4
4. MIDLAND COUNTIES	82	8	*	*	*	*	1044	− 99	642	+109	82	− 3	11·21	−0·40	805	+ 64	35	+ 3
5. ENGLAND, S.E.	82	0	*	*	*	*	1051	−167	482	+101	85	+ 3	12·06	+0·71	970	+143	43	+ 6
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	968	− 61	445	+ 20	96	− 6	20·51	+0·03	793	+ 42	35	+ 2
7. ENGLAND, N.W.	79	10	*	*	*	*	958	− 70	466	+ 80	89	− 5	14·12	−0·25	883	+128	39	+ 6
8. ENGLAND, S.W.	81	7	*	*	*	*	1037	−154	390	+ 89	90	− 2	14·57	−1·60	937	+107	41	+ 5
9 IRELAND, NORTH	75	14	*	*	*	*	1004	− 32	315	− 30	112	+ 2	16·32	−0·10	715	− 3	31	0
10. IRELAND, SOUTH	76	15	*	*	*	*	1203	− 34	265	+ 6	106	+ 7	17·25	−0·61	806	+ 12	35	+ 1
11. ENGLISH CHANNEL	78	25	*	*	*	*	1372	+ 5	151	+ 42	86	−14	13·11	−0·47	1122	+130	49	+ 6

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m. at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ⚓ is supplied by the Royal Meteorological Society, and that for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked M or $ are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N. a, Islands.	*p Balta Sound* S	*57*	*3rd*	*40*	*2nd*	*53·2*	*45·0*	*48·8*	—	*43*	*0*	*2*	*0·10*		*22·0*	—	*17*	—	*Balta Sound.*
	a Sumburgh Head ..	56	3rd	43	2nd	53·3	44·9	48·8	- 1·4	48	0	1	0·15	- 0·31	18 9	-15·3	15	-12	Deerness.
	a Stornoway	68	1st	44	1st	60·6	48·1	53·9	+ 0·9	83	0	2	0·18	- 0·41	48·4	+ 6·9	39	+ 6	Stornoway.
	a Castlebay, Barra Isd.	*62*	*27th*	*47*	*27th*	*59·6*	*50·1*	*54·5*	- *1·2*	*88*	*0*	*4*	*0·38*	—	*67·0*	—	*55*	—	*Castlebay.*
	a Wick	66	3rd	45	30th, 1st	56·6	47·3	51·6	- 1·1	67	0	4	0·43	- 0·07	*	*	*	*	
b, Mainland.	*p* Strathpeffer																		Strathpeffer.
	p Glencarron .. S	71	1st	41	1st	62·6	43·2	53·8	+ 0·4	83	0	3	0·67	- 0·36	*	*	*	*	
	p Fort Augustus S	67	2nd	40	1st	59·7	47·4	53·1	- 1·6	78	0	2	0·29	- 0·23	27·0	- 2·7	22	- 2	Fort Augustus.
	p Fort William S	70	28th, 1st	41	1st	63·9	47·5	55·1	- 0·7	92	0	3	0·35	- 0·59	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	75	2nd	45	30th, 1st	61·8	47·1	53·9	- 1·6	83	0	4	0·10	- 0·44	*18·7*	—	*15*	—	*Gordon Castle.*
	a Nairn	69	2nd	45	27th	59·1	47·4	52·8	- 2·2	76	0	5	0·10	- 0·34	31·1	—	25	—	Nairn.
	a Aberdeen	73	3rd	46	2nd	60·4	48·6	54·1	- 0·6	85	0	2	0·14	- 0·36	30·7	-11·1	25	- 9	Aberdeen.
	a Balmoral .. S	66	1st	35	1st	61·4	42·0	51·0	- 2·2	63	0	1	0·13	- 0·37	29·5	—	24	—	Crathes S.
	p Crieff .. .. S	72	1st	39	1st	65·4	46·6	55·4	- 1·2	94	0	2	0·10	- 0·56	46·8	—	38	—	Balruddery
	a Leith	69	2nd	47	1st, 2nd	60·1	49·4	54·4	- 2·3	87	0	3	0·19	- 0·39	42·3	+ 8·1	35	+ 7	Edinburgh.
	a West Linton.. S	64	2nd	33	1st	59·4	43·6	51·0	- 3·1	63	0	2	0·58	—	*41·7*	—	*35*	—	*West Linton.*
	p Marchmont .. S	67	2nd	43	2nd	59·3	47·1	52·8	- 1·8	76	0	3	0·22	- 0·36	41·7	- 0·9	35	- 1	Marchmont.
2. ENGLAND, N.E. a, North.	*a* Alnwick Castle ..	70	2nd	35	2nd	60·9	47·4	53·7	- 1·7	82	0	1	0·03	- 0·47	27·8	—	23	—	Cockle Park.
	a Shields	70	2nd, 3rd	39	2nd	59·9	46·0	52·5	- 3·2	74	0	3	0·48	- 0·01	*25·6*	- *7·5*	*22*	- *6*	*Newcastle.*
	p Durham	67	2nd	36	2nd	60·1	46·9	53·0	- 3·5	77	0	3	0·14	- 0·34	29·1	-11·0	25	- 9	Durham.
	p Rounton .. M	68	2nd	38	2nd	60·6	45·4	52·5	- 3·4	74	0	4	0·61	+ 0·13	*	*	*	*	
	p Scarborough.. M	69	2nd, 3rd	42	2nd	61·0	49·4	54·8	- 1·8	90	0	1	0·06	- 0·38	23·0	—	20	—	Scarborough.
	p York	70	2nd	44	2nd	63·5	48·8	55·6	- 2·7	95	0	3	0·14	- 0·37	19·1	-22·0	16	-19	York.
b, South.	*a* Spurn Head	72	3rd	46	2nd	60·7	49·3	54·6	- 2·2	88	0	3	0·23	- 0·12	*	*	*	*	
	a Lincoln	73	2nd	45	27th, 2nd	64·7	48·1	55·8	- 3·5	97	0	1	0·08	- 0·38	41·0	—	35	—	Skegness.
	a Fulbeck	71	2nd	45	1st	64·7	48·6	56·1	- 2·6	99	0	3	0·12	- 0·35	41·2	—	35	—	Rauceby.
															47·5	—	*41*	—	*Lowestoft.*
3. ENGLAND, E. a, North.	*p* Cromer	74	3rd	48	27, 28, 29, 2	61·3	48·5	54·5	- 3·1	88	0	4	0·50	—	31·9	—	27	—	Cromer.
	p Hillington .. M	74	3rd	45	29th	64·3	47·6	55·4	- 3·0	94	0	5	0·32	- 0·17	37·9	- 8·0	33	- 7	Hillington.
	a Yarmouth	75	3rd	47	27th	61·9	50·9	56·0	- 1·7	98	0	2	0·18	- 0·29	51·4	—	44	—	Yarmouth.
	a Norwich	75	3rd	48	28th, 29th	64·5	49·3	56·4	- 1·7	101	0	4	0·44	—	*	*	*	*	
	p Geldeston	74	3rd	44	29th	63·5	48·0	55·2	- 2·9	92	0	2	0·06	- 0·38	45·5	- 2·4	39	- 2	Geldeston.
b, South.	*p* Cambridge	73	3rd	43	27th	66·0	47·0	55·8	- 3·8	97	0	2	0·15	- 0·34	48·4	+ 1·9	42	+ 2	Cambridge.
	a Felixstowe ..	*65*	*29th, 2nd*	*48*	*1st, 2nd*	*61·6*	*50·7*	*55·8*	- *2·9*	*97*	*0*	*1*	*0·08*	—	*49·4*	—	*43*	—	*Felixstowe.*
	a Clacton-on-Sea ..	68	3rd	47	2nd	62·1	50·1	55·7	- 3·0	96	0	1	0·26	—	50·9	—	44	—	Clacton.
	a Rothamsted ..	71	3rd	43	28th	63·5	46·3	54·3	- 4·1	86	0	3	0·29	- 0·22	50·0	+ 4·3	44	+ 4	Rothamsted.
	a Shoeburyness ..	*71*	*3rd*	*45*	*2nd*	*63·3*	*49·9*	*56·1*	- *4·6*	*99*	*0*	*3*	*0·52*	+ *0·14*	*42·0*	—	*37*	—	*Southend.*
	p Tottenham	73	3rd	45	1st	64·0	47·7	55·3	- 4·7	93	0	2	0·58	—	37·3	—	32	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	*a* Harrogate	69	2nd	41	2nd	61·6	46·9	53·7	- 2·7	82	0	4	0·31	- 0·23	25·5	—	22	—	Harrogate.
	a Bawtry	73	3rd	42	2nd	66·1	48·6	56·7	- 2·6	103	0	4	0·54	+ 0·09	30·6	- 7·9	26	- 7	Worksop.
	p Buxton .. M	*70*	*2nd*	*37*	*2nd*	*63·3*	*43·4*	*53·7*	- *2·7*	*75*	*0*	*1*	*0·39*	- *0·36*	*57·3*	—	*49*	—	*Buxton.*
	a Nottingham ..	71	2nd	42	2nd	64·4	47·6	55·4	- 3·2	94	0	5	0·11	- 0·37	40·7	—	35	—	Nottingham.
	p Birmingham, Edgbsn	70	2nd	45	27, 1, 2nd	63·6	47·2	54·8	- 2·9	90	0	4	0·26	- 0·24	29·7	—	26	—	Birmingham.
	a Raunds .. M	73	3rd	43	27th, 1st	66·7	46·3	55·8	- 3·4	97	0	2	0·10	—	*	*	*	*	
	a Oxford	71	2nd, 3rd	45	28th, 1st	66·0	47·7	56·2	- 3·2	99	0	3	0·37	- 0·16	45·0	- 0·6	39	- 1	Oxford.
b, West.	*a* Cheadle .. M	68	2nd	38	1st	62·9	44·7	53·2	- 3·4	78	0	2	0·14	- 0·46	31·9	—	27	—	Sheffield.
	p Shrewsbury	73	2nd	42	1st	67·2	46·8	56·3	- 1·9	100	0	4	0·34	—	*	*	*	*	
	a Hereford .. M	72	2nd	42	2nd	66·3	45·8	55·3	- 3·6	93	0	4	0·14	- 0·36	*	*	*	*	
	a Cirencester	70	2nd	39	28th	65·2	44·0	53·9	- 3·7	83	0	3	0·34	- 0·21	41·6	- 3·4	36	- 3	Cirencester.
	a Bath	72	2nd	43	28th	66·4	46·9	56·0	- 3·1	98	0	3	0·20	- 0·34	59·6	—	52	—	Bath.
															45·0	—	*40*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	*p* Kew	72	3rd	45	28th. 1st	63·9	48·4	55·6	- 4·0	95	0	3	0·47	- 0·03	36·7	- 8·8	32	- 8	Kew.
	a Marlborough ..	67	30th	39	28th	59·9	48·4	53·8	- 4·1	83	0	4	0·52	- 0·06	37·9	- 4·1	33	- 4	Marlborough.
	a Margate	73	3rd	48	27th	63·6	50·1	56·4	- 3·0	101	0	2	0·57	+ 0·14	37·8	- 5·4	33	- 5	Margate.
	a Wisley, Surrey ..	71	2nd, 3rd	42	1st	64·0	47·0	54·9	- 5·7	90	0	4	0·50	—	40·0	—	35	—	Wisley.
	a Swarraton .. M	70	2nd	40	28th, 2nd	63·6	43·6	52·9	- 5·1	76	0	4	0·67	+ 0·16	50·1	—	44	—	Worthing.
	a Tunbridge Wells M	70	3rd	43	1st	63·4	46·5	54·4	- 4·2	87	0	4	0·26	- 0·24	37·1	- 9·7	33	- 9	Tunbridge Wells.
	a Dungeness	65	1st	44	1st	61·6	48·1	54·4	- 4·1	87	0	4	0·59	+ 0·22	46·2	—	41	—	Littlestone.
	p Hastings	65	3rd	43	1st	62·2	49·0	55·1	- 3·9	92	0	4	0·27	- 0·19	*51·4*	- *2·0*	*45*	- *2*	*Hastings.*
	p Southampton ..	70	2nd	45	28th	63·8	48·1	55·4	- 5·5	94	0	4	0·53	+ 0·04	37·9	-11·3	33	-10	Southampton.
	a Ventnor	65	3rd	48	1st	63·2	49·9	56·1	- 4·0	99	0	4	0·29	- 0·17	59·2	+13·6	52	+12	Ventnor.
															59·2	+ 6·7	52	+ 6	Eastbourne.
LONDON	*a Westminster* ..	*72*	*3rd*	*46*	*1st*	*64·6*	*48·9*	*56·2*	- *4·1*	*99*	*0*	*3*	*0·37*	- *0·13*	*35·8*	- *4·1*	*31*	- *4*	*Westminster.*
	a Greenwich	*76*	*3rd*	*45*	*28th*	*66·8*	*47·9*	*56·7*	- *4·3*	*103*	*0*	*4*	*0·84*	- *0·14*	*37·0*	- *11·4*	*32*	- *10*	*Greenwich.*
6. a, SCOTLAND. W. ..	*p* Laudale	74	1st	44	29th, 1st	67·9	47·9	57·2	+ 1·2	106	0	3	0·58	- 0·35	*	*	*	*	
	a Poltalloch .. S	67	28th, 30th	40	2nd, 3rd	64·1	50·4	56·8	+ 0·2	104	0	3	0·86	+ 0·10	*	*	*	*	
	p Glasgow	68	1st	45	1st	64·2	49·9	56·6	+ 0·5	102	0	3	0·38	- 0·25	42·3	+ 5·4	35	+ 5	Glasgow.
	p Rothesay .. S	71	30th	47	1st	66·1	50·6	57·8	+ 1·0	111	0	2	0·68	- 0·08	*	*	*	*	
	a Kilmarnock ..	68	1st	38	1st	64·7	46·8	55·1	- 1·6	92	0	2	0·54	—	*35·8*	—	*30*	—	*Kilmarnock.*
	a Colmonell .. S	66	29th	40	1st	63·9	46·9	54·8	- 1·5	90	0	3	0·72	+ 0·11	*	*	*	*	
	p Dumfries .. S	69	30th, 1st	42	2nd	65·1	48·3	56·1	- 1·4	99	0	2	0·30	- 0·28	*	*	*	*	
b, ISLE OF MAN ..	*p* Cally, Gatehouse S	69	29th	40	30th	64·7	46·9	55·2	- 1·5	92	0	4	1·08	+ 0·37	*	*	*	*	
	p Douglas	64	30th	48	1st	61·3	50·5	55·5	- 0·6	95	0	2	0·19	- 0·43	50·5	+ 0·7	43	+ 1	Douglas.
															51·0	—	44	—	Hoylake.
7. a, ENGLAND, N.W...	*p* Aspatria	68	29th	42	1st	64·2	47·9	55·5	- 0·4	95	0	4	0·77	+ 0·13	46·9	—	39	—	Aspatria.
	p Newton Rigg ..	68	1st, 2nd	40	1st	64·8	45·9	54·7	- 0·7	89	0	3	0·63	+ 0·10	41·7	- 4·9	35	- 4	Newton Rigg.
	p Stonyhurst	71	2nd	43	1st, 2nd	63·3	48·1	55·2	- 2·4	92	0	4	0·73	- 0·01	37·0	- 7·6	31	- 6	Stonyhurst.
	p Blackpool .. M	70	2nd	40	1st	63·7	48·0	55·3	- 2·3	93	0	4	0·26	- 0·27	46·3	+ 1·0	39	+ 1	Blackpool.
	p M'nch'ster,Prestwich	73	2nd	43	1st	64·3	48·0	55·6	- 1·8	95	0	3	0 44	- 0·22	*35·6*	- *3·2*	*30*	- *3*	*Prestwich.*
	a Liverpool (Bidston)	74	2nd	47	1st	64·1	50·9	57·0	- 1·3	105	0	4	0·49	- 0·06	*48·2*	—	*41*	—	*Liverpool.*
	a Hawarden Bridge ..	73	2nd	47	1st	64·9	49·8	56·8	- 1·7	104	0	3	0·29	- 0·17	*46·4*	- *0·6*	*39*	- *1*	*Southport.*
															53·2	—	*46*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	71	2nd, 3rd	48	27th, 1st	63·6	51·0	56·9	- 1·3	104	0	3	0·44	- 0·03	52·2	+ 6·0	45	+ 5	Llandudno.
	a Holyhead	65	2nd	48	27th	60·9	50·4	55·3	- 1·4	93	0	3	0·44	- 0·08	42·9	—	37	—	Aberdovey.
	p Bettws-y-Coed ..	73	2nd	39	27th	64·0	46·3	54·5	- 3·4	88	0	2	0·25	—	36·8	—	32	—	Bettws-y-Coed.
															43·1	—	37	—	Aberystwyth.
8. a, SOUTH WALES ..	*a* Llangammarch Wells	71	2nd	35	1st	64·7	41·7	52·4	- 4·4	74	1	5	0·39	—	46·6	—	41	—	Llangammarch Wells.
	a Pembroke	63	30th, 1st	47	29th	60·3	50·0	54·8	- 1·9	90	0	2	0·06	- 0·44	72·5	+21·0	63	+18	Pembroke.
	a Cardiff	71	2nd	43	28th	65·0	46·9	55·3	- 4·1	93	0	2	0·39	- 0·23	*50·6*	—	*44*	—	*Cardiff.*
															56·5	+ *3·9*	*49*	+ *3*	*Tenby.*
b, ENGLAND, S.W. ..	*a* Clifton	75	2nd	47	27th	67·4	49·8	58·0	- 1·6	112	0	3	0·13	- 0·48	*58·6*	—	*51*	—	*Clifton.*
	a Shaftesbury .. M	70	2nd	43	28th	63·9	46·8	54·8	- 2·9	90	0	3	0·37	- 0·19	*	*	*	*	
	a Arlington	69	2nd	39	28th	64·1	46·0	54·4	- 1·9	87	0	3	0·25	- 0·53	66·2	+16·2	59	+14	Newquay.
	a Cullompton .. M	72	30th, 2nd	39	28th	68·2	47·9	57·3	- 1·2	107	0	1	0·06	- 0·48	47·1	+ 2·3	41	+ 2	Cullompton.
	a Portland Bill ..	63	2nd, 3rd	51	27, 28, 1, 2	60·9	52·1	56·2	- 1·7	99	0	2	0·41	—	*62·5*	—	*55*	—	*Weymouth.*
	p Plymouth	69	30th	44	28th	66·5	49·9	57·6	- 2·0	109	0	1	0·02	- 0·52	66·2	+18·2	59	+16	Plymouth.
	p Falmouth	69	1st	48	27, 28, 29th	64·0	51·2	57·2	- 1·3	106	0	2	0·03	- 0·53	60·7	+ 9·0	54	+ 8	Falmouth.
															53·9	+ *0·3*	*48*	*0*	*Torquay.*
9. IRELAND, N. a, West.	*a* Malin Head	65	1st	48	27th	60·9	51·1	55·7	+ 0·9	96	0	2	0·64	+ 0·02	*	*	*	*	
	a Blacksod Point ..	66	1st	47	27th	61·7	50·4	55·7	- 0·7	96	0	3	0·38	- 0·25	*	*	*	*	
	p Markree Castle ..	71	1st	39	27th, 29th	65·3	46·0	55·0	- 0·6	91	0	4	0·55	- 0·15	44·6	+ 8·1	38	+ 7	Markree Castle.
	a Birr Castle	75	1st	45	29th, 30th	67·7	49·1	57·8	+ 0·6	111	0	4	0·43	- 0·14	*34·8*	- *2·8*	*30*	- *2*	*Birr Castle.*
b, East.	*p* Armagh	69	30th	39	27th	65·4	46·7	55·4	- 1·0	94	0	5	0·50	- 0·10	30·1	- 8·4	26	- 7	Armagh.
	a Donaghadee	69	3rd	47	1st	61·4	49·4	55·0	- 1·0	91	0	2	0·78	+ 0·22	*	*	*	*	
10. IRELAND, S. a, East.	*p* Dublin, City.. ..	73	2nd, 3rd	45	27th	65·5	51·4	58·0	- 1·2	112	0	4	0·59	+ 0·11	41·5	- 3·0	36	- 3	Phœnix Park.
	a Kilkenny	73	1st	43	30th	67·0	49·6	57·7	- 0·5	110	0	2	0·35	- 0·22	*	*	*	*	
	a Waterford	72	30th	45	27th, 30th	67·3	50·1	58·1	- 0·3	113	0	1	0·04	- 0·63	*	*	*	*	
	a Birr Castle	75	1st	45	29th, 30th	67·7	49·1	57·8	+ 0·6	111	0	4	0·43	- 0·14	34·8	- 2·8	30	- 2	Birr Castle.
b, West.	*a* Foynes	72	30th	44	27th	66·5	50·2	57·8	- 0·2	111	0	5	0·27	- 0·31	*	*	*	*	
	a Cahir .. .. M	75	1st	44	30th	67·7	49·2	57·8	0·0	111	0	2	0·10	—	*	*	*	*	
	a Killarney	76	30th	44	28th	69·8	50·6	59·5	+ 2·1	123	0	2	0·06	- 0.62	*	*	*	*	
	a Valencia	66	1st	43	29th	62·1	48·9	55·0	- 2·5	91	0	3	0·14	- 0·63	49·9	+ 7·6	43	+ 7	Valencia.
	a Roche's Point ..	68	30th	49	29th	63·6	51·9	57·3	- 0·4	107	0	1	0·02	—	42·4	—	37	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	66	2nd	52	27th	62·6	54·9	58·5	- 0·4	116	0	2	0·22	- 0·23	61·1	+ 5·3	54	+ 5	Scilly.
	a Jersey, St. Aubins ..	70	3rd	44	3rd	64·7	48·7	56·1	- 3·9	99	0	2	0·13	- 0·36	74·5	+18·0	67	+16	St. Heliers.
	a Guernsey	71	2nd	47	2nd	65·5	50·1	57·3	- 2·2	107	0	1	0·03	- 0·46	75·4	+18·3	67	+16	Guernsey.

Additional Sunshine Totals for the week: *Brighton* 53·8 hrs. (+ 2·0 hrs.) 47 % (+ 2 %); *Bournemouth* 56·4 hrs., 50 %; *Boscar*, 54·8 hrs., 48 %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	51·6	—
	— —				
	— —				
1.	Aberdeen	—	—	—	51·0
	Crathes	0	31	54·7	51·6
	Balmoral	1	30	—	—
	West Linton	1	30	—	—
	Marchmont	0	34	55·6	—
2.	Cockle Park	0	38	54·2	52·0
	Durham	0	36	—	—
	York	—	—	56·1	53·0
	Hull	0	39	56·1	51·9
	Lincoln	—	—	56·4	52·8
	Rauceby	0	41	58·6	53·7
3.	Norwich	0	41	—	—
	Yarmouth	—	—	60·7	57·3
	Lowestoft	0	44	59·0	55·4
	Cambridge	0	35	58·3	55·3
	Clacton-on-Sea	0	40	57·8	56·0
	Southend	0	46	58·6	—
	Tottenham	0	41	—	55·4
4.	Harrogate	0	34	52·8	51·6
	Huddersfield	0	35	55·1	51·1
	Buxton	0	38	53·2	50·C
	Sheffield	0	35	54·1	51·0
	Nottingham	0	37	56·4	53·6
	Birmingham	1	30	51·7	49·6
	Oxford	0	—	—	—
	Hereford	0	36	—	—
	Cirencester	0	34	—	—
5.	Margate	0	45	56·4	54·6
	Greenwich	0	33	—	—
	Westminster	0	39	—	—
	Kew	0	31	56·9	54·2
	Canterbury	0	42	55·9	55·2
	Tunbridge Wells	0	37	58·3	—
	Wisley	0	36	57·4	55·3
	Worthing	0	39	58·9	56·0
	Portsmouth	0	37	59·0	57·0
6.	Glasgow	0	38	—	—
	Rothesay	—	—	—	53·0
	Colmonel	0	37	—	—
	Dumfries	—	—	—	—
	Douglas	0	42	—	—
7.	Aspatria	0	37	—	—
	Newton Rigg	0	35	56·6	52·2
	Burnley	0	34	54·8	50·9
	Southport	0	34	60·1	56·2
	Manchester City	0	36	55·8	54·0
	Bettws-y-Coed	0	39	53·3	51·0
8.	Llangammarch Wells	4	25	55·2	51·4
	Cardiff	0	34	58·0	54·6
	Clifton	0	? 44	—	—
	Bath	—	—	59·2	55·4
	Plymouth	0	41	60·6	—
9.	Armagh	0	33	57·8	54·6
	Markree	0	31	—	—
10.	Dublin, Trin. Coll.	0	40	57·9	54·8
11.	Guernsey, Brooklyn	0	40	61·2	58·0

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	50	50	50·0
	Kirkwall	54	52	53·4
	Wick	57	56	56·9
SCOTLAND, E.	Cromarty	54	51	52·7
	Pennan Bay	54	51	52·2
	Aberdeen, Cove Bay	54	51	52·4
ENGLAND, N.E.	Burnmouth, Berwick	50	49	49·4
	Scarborough	53	50	51·4
ENGLAND, E.	Shipwash Lightship	58	53	56·2
	Margate‡	58	58	57·9
ENGLAND, S.E.	Eastbourne‡	63	58	60·1
SCOTLAND, W.	Lamlash	—	—	—
	Ballantrae	56	55	55·1
ENGLAND, N.W.	Port Erin	56	52	53·7
ENGLAND, S.W.	Newquay	59	58	58·4
	Plymouth‡	59	57	57·9
	Salcombe	57	55	55·8
IRELAND, N.W.	Sheephaven	58	58	58·0
	Teelin	62	55	57·8
IRELAND, S.W.	Cleggan	61	54	57·3
	Seafield	61	56	58·8
IRELAND, E.				

‡ Only one observation each day

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1909.	Station.	Wind Direction (in Degrees, E=90°, S=180°, W=270°, N=360°) and Velocity, Metres per Second. Ground Level.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres	4,000 metr's.	4,500 metr's.	5,000 metr's.	5,500 metr's.	6,000 metres.	7,000 metr's	8,000 metr's.	9,000 metr's.	10,000 metr's.	11,000. metres	12,000 metr's.	13,000 metres.
1	June 28th, 6 p.m. to 6.7 p.m.	Howard Estate, Glossop.	357°,1	350°, 1	140°, 2																	
2	June 29th, 11.40 a.m. to 11.53 a.m.	Howard Estate, Glossop.	20°, 4	18°, 3	9°, 3																	
3	June 30th, 7.16 p.m.	Pyrton Hill, Oxon.	35°, 2	330°, 8	320°, 11	325°, 12	340°, 9	340°, 9														
4	July 1st. 3.5 p.m. to 3.17 p.m.	Howard Estate, Glossop.	357°, 2	331°, 1	20°, 1	360°, 1																
5	July 1st, 6.20 p.m.	Pyrton Hill, Oxon.	20°, 2	10°, 2	15°, 6	20°, 6	15°, 8	5°, 10	355°, 14	350°, 19	350°, 18	350°, 16	345°,14	340°,17								
6	July 2nd, 10. a.m.	Pyrton Hill, Oxon.	320°, 2	320°, 1	40°, 1	70°, 2	50°, 3	40°, 6	35°, 7	30°, 8												

NOTES.—Nos. **1.**—Pilot Balloon. Light air. Wind direction varied considerably with altitude. Clouds Ni. and Cu.-Ni. 10. Temp. at ground 284°; Humidity 83%. Maximum height 1,200 m. Wind 135°, 3.
2.—Pilot balloon. Fair to fine. Gentle breeze. Clouds Ni. and A-Cu. 9 to Cu. and A-Cu. 5. Temp. at ground 286°; Humidity 78%. Maximum height 1,200 m. Wind 358°, 4.
3.—Registering balloon. Observed with two theodolites. Mean ascensional velocity 2·5 m.p.s.
4.—Pilot Baloon. Fine. Light breeze. Clouds Cu. 2. Temp. at ground 288°; Humidity 69%. Maximum height 1,700 m. Wind 360°,2.
5.—Registering Balloon. Two theodolites for 26 minutes. Ascensional velocity 2·9 m.p.s. assumed above 4·5 km.
6.—Pilot balloon. One theodolite. Lost behind cloud.

REGISTERING BALLOON ASCENTS FROM MANCHESTER.

1

Manchester, February 8th, 6.3 p.m.

Height in Kilometres.	Pressure. Mm.	Pressure. Mgd.	Temperature. C°	Temperature. A°
Ground	762	1·016	+ 3	276
0·5	720	·960	2·5	275·5
1·0	675	·900	2·5	275·5
1·5	635	·847	+ 1	274
2·0	595	·794	- 1	**272**
2·5	560	·747	- 4	**269**
3·0	525	·700	- 7	**266**
3·5	490	·653	-11	**262**
4·0	460	·613	-15	**258**
4·5	430	·573	-19	**254**
5·0	405	·540	-22	**251**
5·5	375	·500	-26	**247**
6·0	350	·467	-29	**244**
6·5	325	·434	-31	**242**
7·0	305	·407	-35	**238**
7·5	280	·373	-39	**234**
8·0	260	·347	-44	**229**
8·5	240	·320	-49	**224**
9·0	225	·300	-53	**220**
9·5	209	·279	-57	**216**
10·0	193	·257	-59	**214**
11·0	165	·220	-62	**211**
12·0	140	·187	-62	**211**
12·4	130	·173	-61·5	**211·5**

2

Manchester, March 4th, 7.55 p.m.

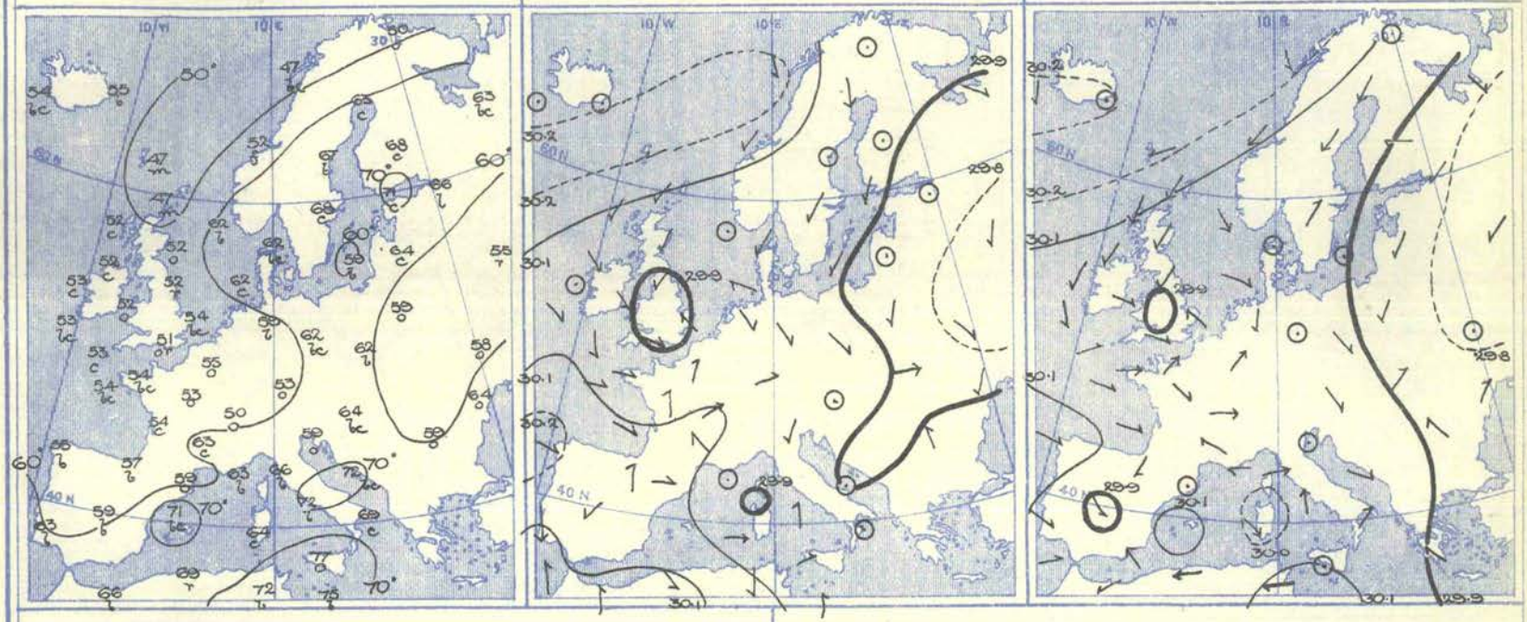
Height in Kilometres.	Pressure. Mm. No. 37.	Pressure. Mm. No. 44.	Pressure. Mgd. No. 37.	Pressure. Mgd. No. 44.	Temperature. C° No. 37.	Temperature. C° No. 44.	Temperature. A° No. 37.	Temperature. A° No. 44.
Ground	746	746	·994	·994	0·0	0·0	**273**	**273**
0·5	700	700	·933	·933	- 4·5	- 4	**268·5**	**269**
1·0	658	658	·878	·878	- 8·5	- 9	**264·5**	**264**
1·5	615	615	·820	·820	-13	-14	**260**	**259**
2·0	575	575	·767	·767	-16	-17	**257**	**256**
2·5	540	543	·720	·724	-21	-21	**252**	**252**
3·0	506	506	·675	·675	-25	-26	**248**	**247**
3·5	470	470	·627	·627	-29	-29	**244**	**244**
4·0	438	438	·584	·584	-33	-33	**240**	**240**
4·5	408	408	·544	544	-37	-36	**236**	**237**
5·0	380	380	·507	·507	-39	-39	**234**	**234**
5·5	350	350	·467	·467	-42	-41	**231**	**232**
6·0	325	325	·434	·434	-45	-44	**228**	**229**
6·5	303	305	·404	·407	-48	-47	**225**	**226**
7·0	280	283	·373	·377	-51	-50	**222**	**223**
7·5	258	260	·344	·347	-54	-53	**219**	**220**
8·0	240	242	·320	·323	-56	-54·5	**217**	**218·5**
8·5	223	225	·297	·300	-54	-54	**219**	**219**
9·0	206	208	·275	·278	-53	-53	**220**	**220**
9·5	190	192	·253	·256	-52	-52	**221**	**221**
10·0	175	177	·234	·237	-52	-52	**221**	**221**
11·0	160	163	·213	·217	-52	—	**221**	
12·0	150	—	·200	—				

No. **1.**—Balloon fell at Thorne, near Doncaster, distant 70 km., direction 86°. Mean Temperature Gradient (Ground to 8 km.) 0·58° per 100 metres. No. **2.**—Balloon fell at Woodford, near Stockport, distant 16 km., direction 163°. Mean Temperature Gradient (Ground to 8 km.) 0·70° per 100 metres. Two instruments were sent up together. Maximum height by instrument No. 37, 11·03 km.; by instrument No. 44, 10·62 km. The lower of the two instruments remained visible by reflected moonlight for 1¼ hours. The atmosphere was practically calm as far as the balloon was observed. The breeze sufficed to carry the balloon only 16 km. towards the South.

Sunday, 27th June, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m. 6 p.m.



Weather in morning very cloudy or overcast over most of these Islands and the surrounding regions, and also in central Europe, the southern half of Russia, and on the coast of Algeria. Rain falling in many places. Fine and bright in the Spanish Peninsula, the greater portion of Scandinavia, and the Baltic region, and in some localities elsewhere. Rain falling later in many parts of this country, France, and the Netherlands, as well as at some Russian stations.

Temperature showing little change. Readings in morning not much above 50° at any of our own stations, and below 55° over most of France. 70° or very little lower over Sweden, the Gulf of Finland, and on the southern shores of the Baltic, and above 70° on some shores of the Mediterranean. Maxima during day about 60° or rather lower over these Islands and the north of France, but about 70° over Germany, and about 80° in Sweden and at some stations in the south of our area. Thermometer rising to 91° at Athens.

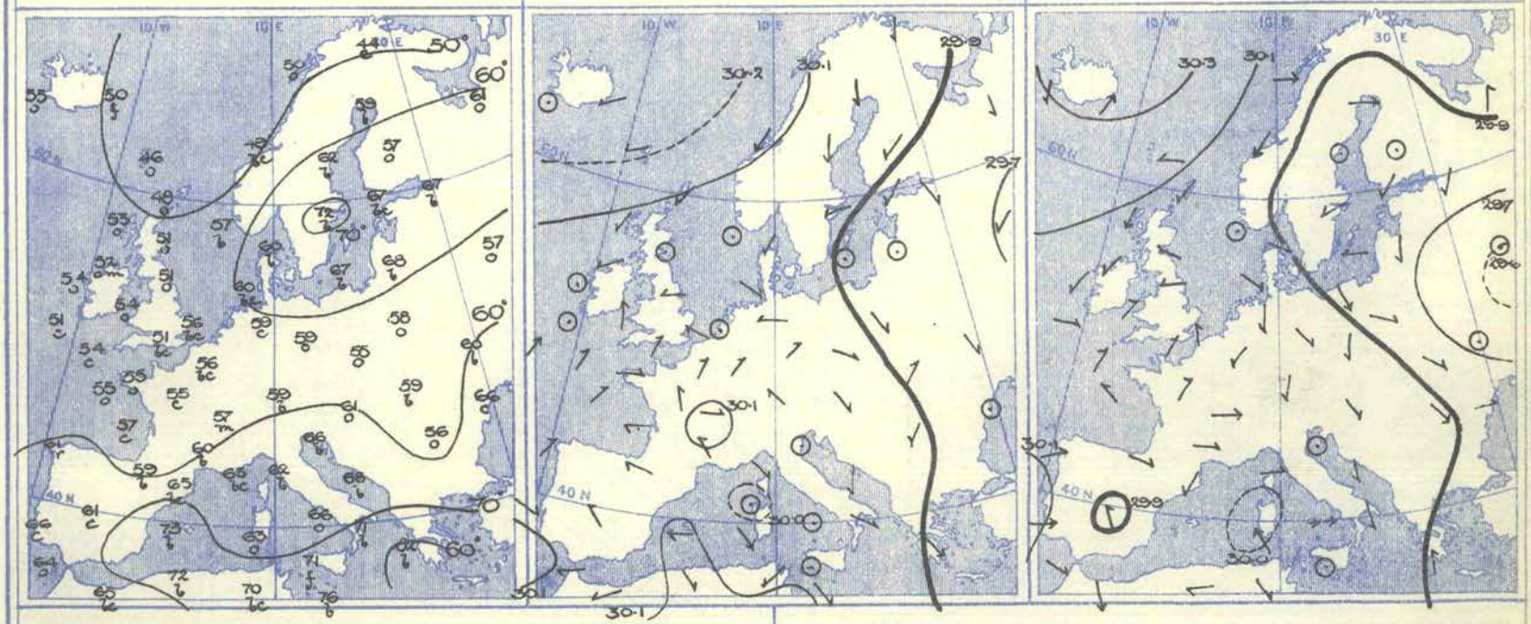
Wind in morning circulating cyclonically in most regions, but an anticyclonic movement shown in the north-west of our area. Scarcely any force higher than a moderate breeze. No general change later; increasing to a strong breeze at Christiansund and also at Rome, and to a fresh breeze at San Fernando.

Barometer in morning above 30·2 ins. beyond the north of Scotland, below 29·9 ins. in a depression over England and in a smaller system over Corsica, and below 29·8 ins. in a large shallow disturbance over the southern half of Russia. No important change later in the general distribution. Depression over England moving very slightly in an easterly direction. A well-marked minimum forming over central Spain.

Monday, 28th June, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m. 6 p.m.



Weather in morning very cloudy or overcast in most parts of these Islands and at several stations in central Europe; fair to fine in most other regions, but rain falling at Corunna and also at Sfax. Some rain experienced later in various parts of this country, France, and central Europe, as well as at Copenhagen.

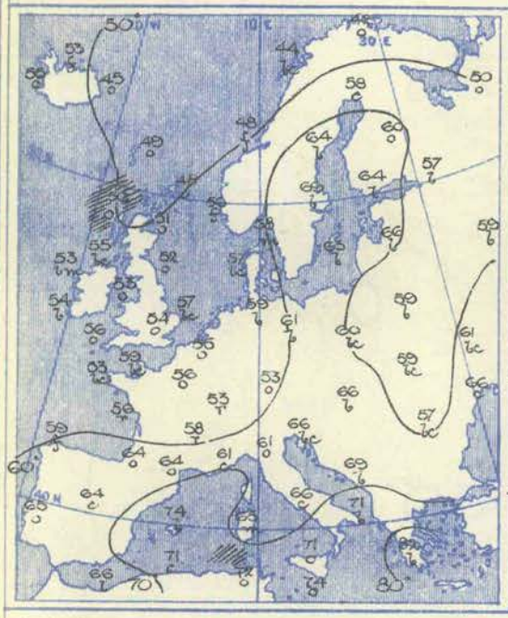
Temperature changed little and rather irregularly. Morning readings not much above 50° over the United Kingdom, and below 55° at several French stations; between 65° and 70° over Sweden and the adjacent portion of Russia, above 70° at some stations in the Mediterranean area, and about 80° in Greece. Maximum during day 70° at Obau, but not much above 60° over these Islands generally, and below that value at some stations. Thermometer rising to 79° at Stockholm, and to above 80° in some parts of Italy, the Spanish Peninsula, and Greece. Maxima below 70° over a large portion of France and Germany.

Wind in morning light and rather variable over these Islands and the western half of the Continent, and light from some Northerly to North-Westerly point over Russia and the Baltic. Strong from North-West at Cagliari, but light or moderate from various points over the Mediterranean as a whole. No important change during day, but a strong gale from West reported at Naples.

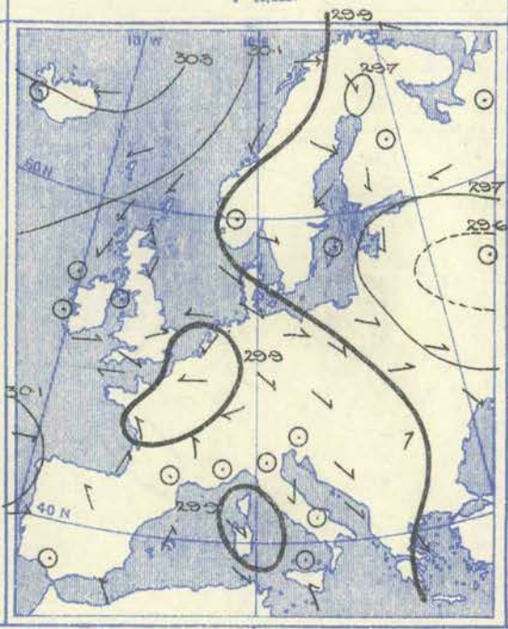
Barometer in morning above 30·2 ins. over a large area beyond Scotland; below 30·0 ins. in a shallow depression covering Ireland, England, and the adjacent part of the Atlantic, and less than 29·7 ins. in a disturbance of little intensity over Russia. Scarcely any change occurring later in the general distribution of pressure, but a depression forming over central Spain.

Tuesday, 29th June, 1909.

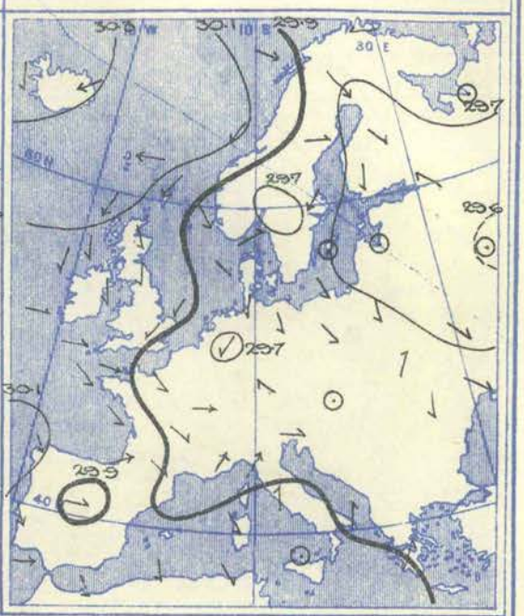
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning generally dull and unsettled over these Islands and France, with rain in places over a wide area. Fair to very fine in most other regions, but overcast in places. Thunderstorms later in some parts of southern England, rain over the eastern half of Great Britain generally, and very heavy rain in the east of France, in Switzerland, South Germany, and at Lugano.

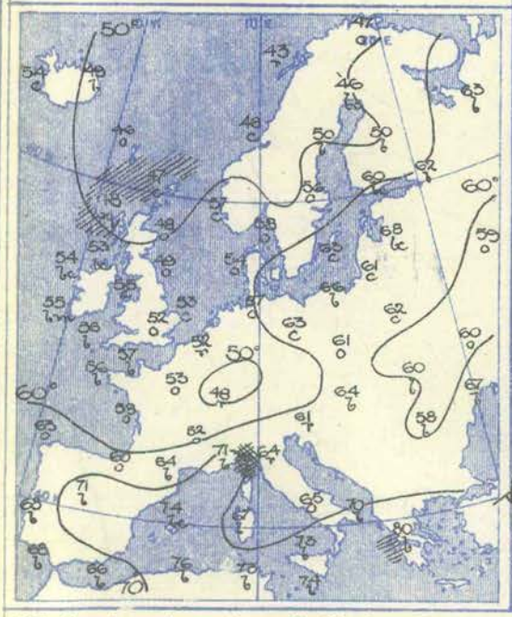
Temperature showing no decided change. Morning readings about 80° in Greece, 76° at Barcelona, and about 70° at some other stations; above 65° in southern Sweden, about 60° in Germany and the south of France. Below 55° at almost all our own stations, and below 50° in some Scottish localities. Maxima during day below 65° in nearly all parts of these Islands, and below 60° in places; above 70° in most parts of central, northern, and southern Europe, and thermometer rising to 86° at Brindisi, 88° at Madrid, and to 90° at Athens.

Wind in morning showing cyclonic circulations of little force over France and the south of this country, the Mediterranean, and Russia, and an anticyclonic movement in the north-west of our area. Little change of a general character during day; another cyclonic movement setting in in the south of Scandinavia, and the North-Easterly current increasing to a fresh or strong breeze in the Hebrides and Shetland.

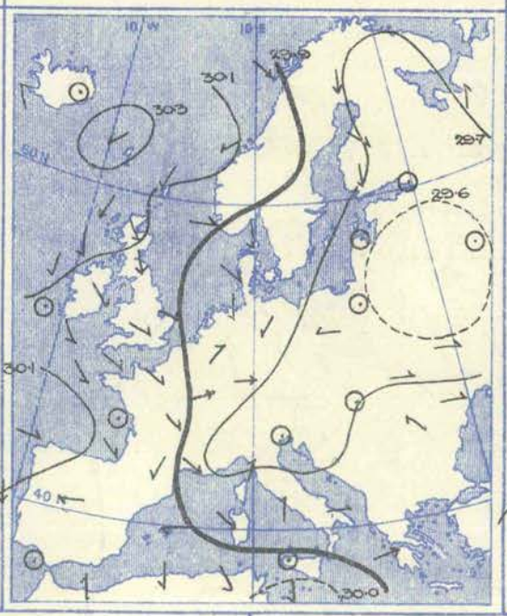
Barometer in morning ranging from above 30·3 ins. over the Icelandic region, and above 30·1 ins. in Portugal to below 29·9 ins. in a shallow depression over France, and also in a system over the western part of the Mediterranean, and to less than 29·6 ins. in a large, shallow disturbance over central Russia. No change in the general distribution during day; French depression moving eastwards, and a well-marked disturbance appearing over the south of Sweden.

Wednesday, 30th June, 1909.

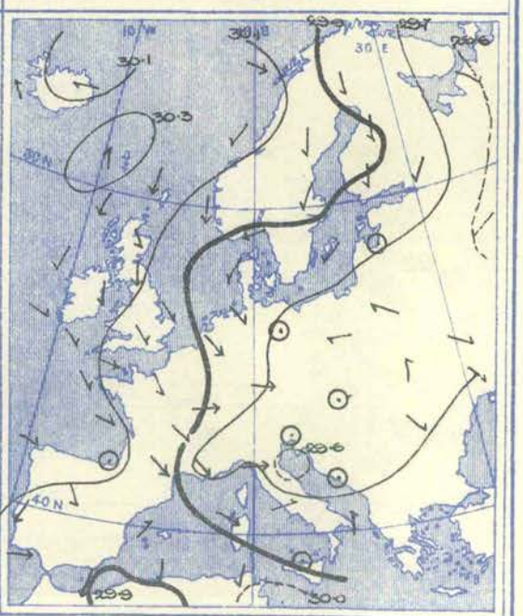
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying considerably; fine and bright in the west and north-west of these Islands and over most of the Mediterranean region, but overcast or very cloudy in most other districts, with rain in some parts of Scandinavia, and also at Brussels, Frankfort, Belfort, Florence, and Trieste. Remaining dry over these Islands, but rather heavy rain falling in various parts of central Europe and at Moscow.

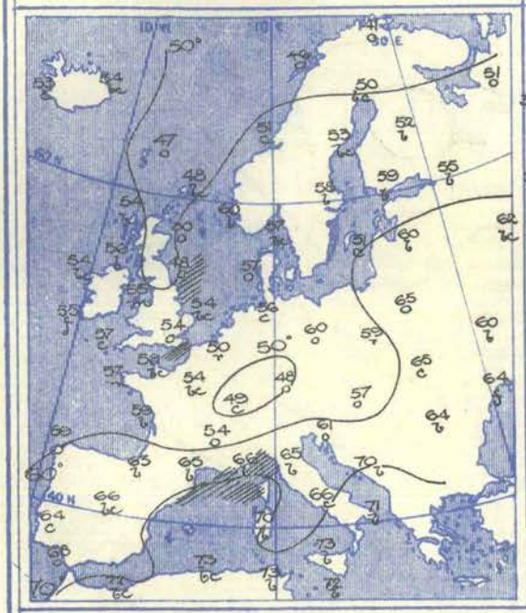
Temperature fallen over Sweden and Finland, changed little elsewhere. Readings in morning below 50° at most stations in Scotland, and not much higher in England and Ireland and the adjacent parts of the Continent; about 60° in central Europe and Russia, and above 70° over a large portion of the Mediterranean. Rising later to 71° at Oban and Torquay, and 73° at Birr Castle, but remaining below 60° in many parts of Great Britain. Maxima below 70° in most French districts, as well as in the Netherlands and in some parts of Austria; between 70° and 80° or above in the south of our area, 87° at Brindisi, and 95° at Madrid.

Wind in morning showing light anticyclonic movements in the far north-west and south-west of our area, and a feeble cyclonic circulation over Russia. Northerly current strong in Scandinavia, and fresh to strong winds between West and North-West prevailing over the south of France and northern Italy. No change of importance later.

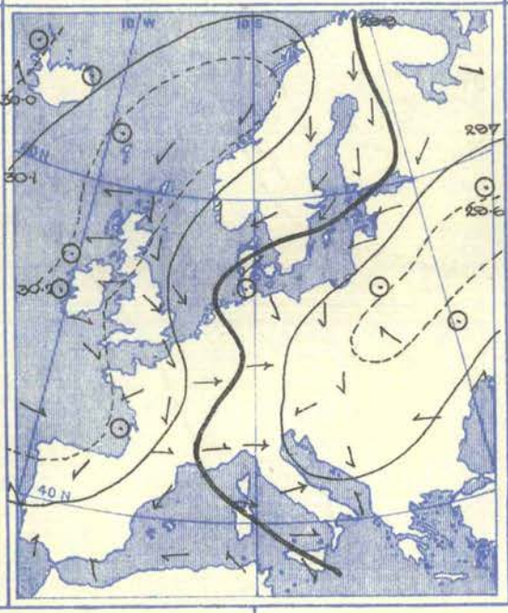
Barometer in morning above 30·3 ins. in an anticyclone centred between Shetland and Iceland, and above 30·1 ins. in another system to the westward of France. Below 29·6 ins. in a large depression over Russia, and below 29·7 ins. in a secondary over the Gulf of Genoa and its neighbourhood. No change in the general distribution later, but high pressure system in the north extending somewhat over these Islands, and that in the south-west encroaching on the west of France.

Thursday, 1st July, 1909.

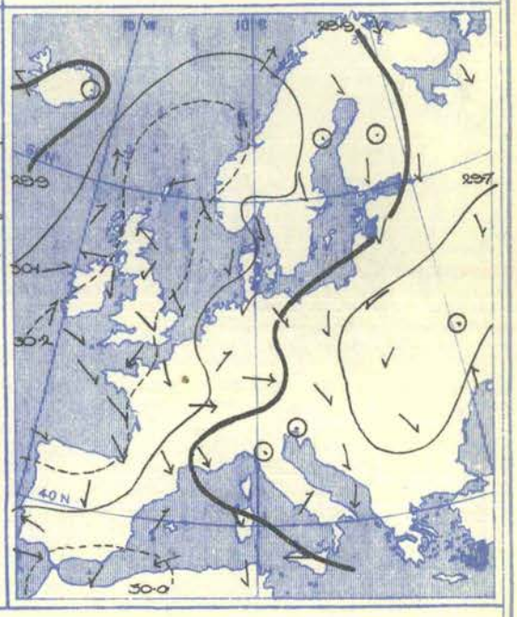
Temperature and Weather — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair to very fine and bright over the greater part of our area, but overcast, with rain in several places, in the central countries. More than an inch of rain experienced later in various parts of Austria-Hungary and eastern Germany, and some slight showers in the west of Ireland. Conditions remaining dry generally.

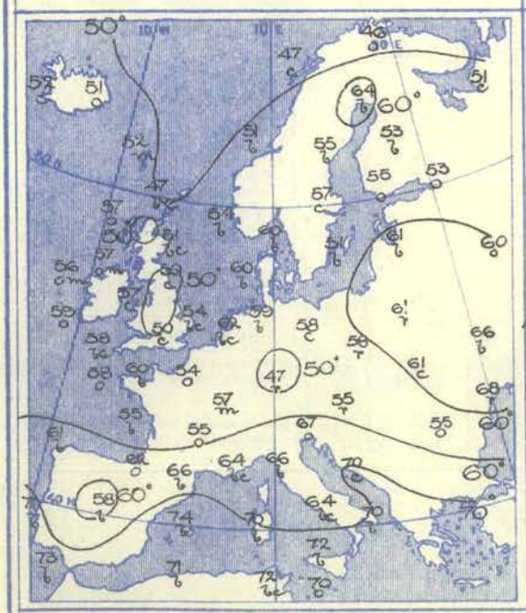
Temperature risen in Ireland and the west of Scotland, fallen over most of the Continent except Scandinavia. Readings in morning nearly 60° in the south of Ireland, but only about 50° in the south-east of England, and below 50° at Vienna and Belfort. Above 60° over the southern half of Russia and in Poland, and above 70° over a considerable portion of the Mediterranean region. Maxima during day rather higher than of late over England, and as high as 71° at Oban. Below 60° at Vienna, Prague, and at a few German stations; above 70° over the southern departments of France, and over the south of our area generally, and above 80° in places. Thermometer touching 86° at Brindisi and Tunis, and 88° at Madrid.

Wind in morning mainly Northerly over all the western and northern countries, Westerly over the central parts of the Mediterranean, and South-Westerly over the Black Sea. Fresh or strong at some stations in Scandinavia, and high at the Belder; light or moderate elsewhere. No great change later, but a light Southerly breeze setting in on some parts of our Atlantic seaboard.

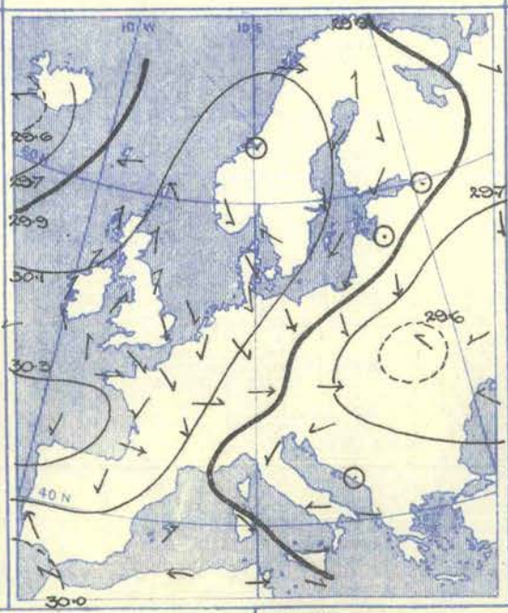
Barometer in morning above 30·2 ins. in an extensive anticyclonic band stretching from the Bay of Biscay to between Norway and Iceland. Below 29·8 ins. over the White Sea region, and below 29·6 ins. in a depression extending from Poland to Moscow. Little change later over our area as a whole, but a depression appearing over Iceland, and barometer beginning to fall in the west of Ireland and Scotland.

Friday, 2nd July, 1909.

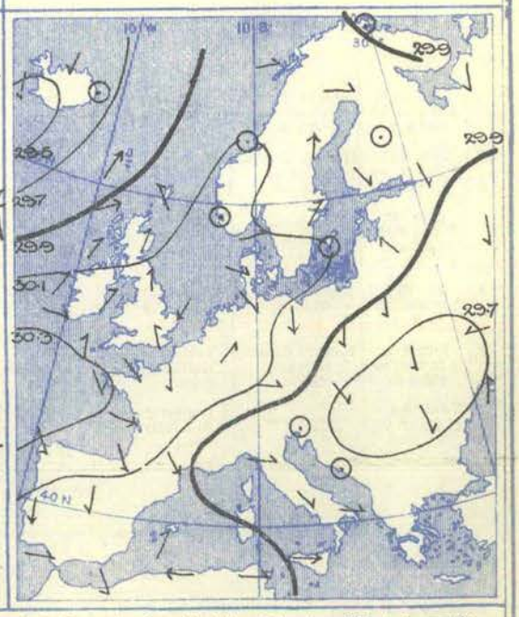
Temperature and Weather — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair to fine over most parts of Great Britain and a large portion of the Continent and Mediterranean, but overcast in Ireland and western Scotland, with rain at Castlebay, and much cloud and some rain prevailing in central Europe and at Odessa. Some heavy rain later in some parts of central Europe and in Little Russia, but weather continuing dry in nearly all other regions.

Temperature in morning a little higher than on the preceding days in several parts of this country, but only 50° or rather lower in central England. Above 60° over most of Russia and southern Europe, and above 70° in several places. Maxima during day 70° or a few degrees above in various parts of this country, about 70° at some places in the central countries, but only 57° at Vienna and Prague. Thermometer rising to 80° or above at some stations in the Mediterranean region.

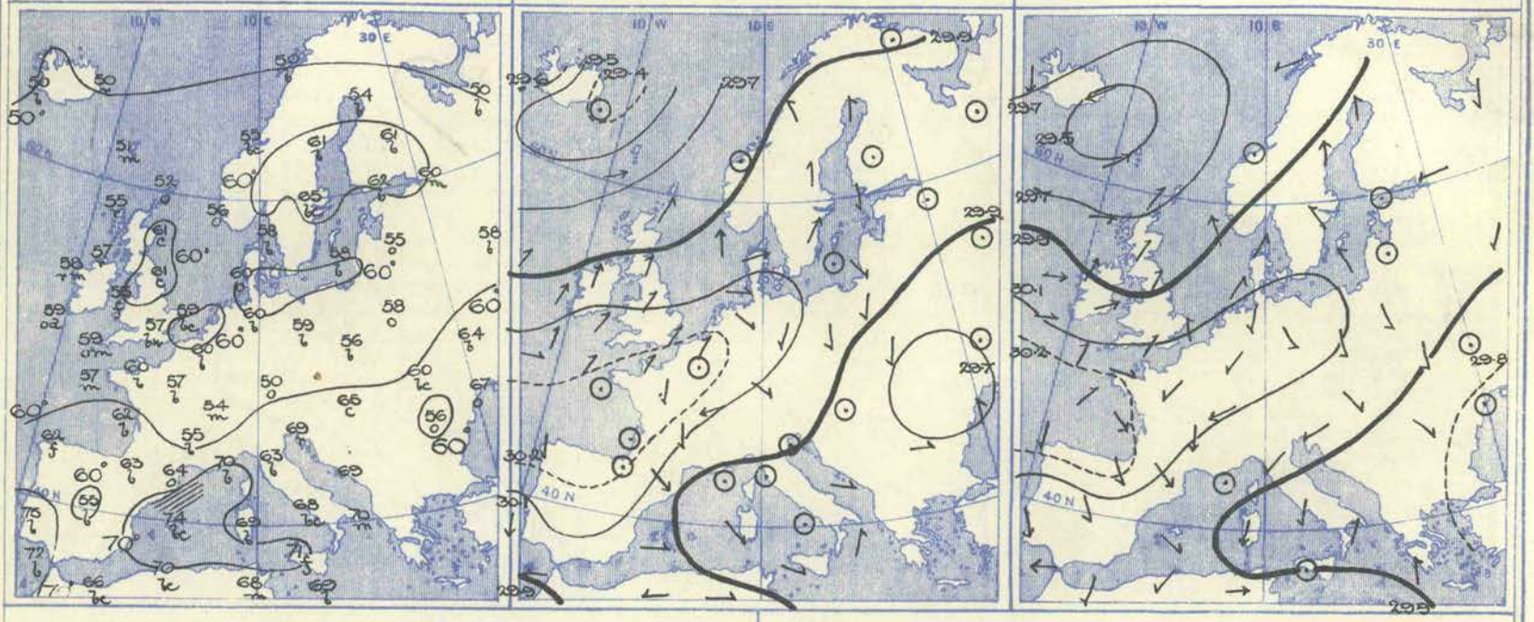
Wind in morning mainly Southerly in the west and north of these Islands, and Easterly over the Icelandic region; still Northerly over the greater part of England, the North Sea, and France. A complete cyclonic circulation shown in the eastern portion of central Europe, and Westerly winds over the Mediterranean. Northerly current blowing a strong breeze on the Baltic, and that from West a gale at Vienna. A light current of wind between West and South extending to nearly all parts of England by evening.

Barometer in morning relatively high in a large anticyclone extending from the Bay of Biscay across these Islands and Scandinavia. Below 29·6 ins. in a depression over Gallicia, and in another system to the westward of Iceland. A secondary disturbance existing over the Gulf of Genoa and its neighbourhood. Icelandic depression extending eastwards and southwards during day, and anticyclonic system losing its hold over this country. A very shallow depression appearing over the St. George's Channel by evening, and an increase of pressure setting in on the west coast of Ireland.

Saturday, 3rd July, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m. 6 p.m.



Weather in morning fair to fine and bright over the major portion of our area, but rainy on our extreme north-west and west coasts and also at some stations in Poland. Rain during day or at night over the whole of this country, and also at Rome and in some other localities on the Continent; about an inch at Cracow. Thunder occurring in a few parts of the United Kingdom.

Temperature risen over Great Britain and the nearer regions of the Continent. Morning readings within a degree or so of 60° over a very large part of this country and the mainland of Europe, about 50° in the far north, and about 70° over the Mediterranean. Rising later to 75° at Yarmouth, to 73° at Margate and Dublin, and to about 70° over a large portion of the Kingdom. Maxima between 70° and 80° in most parts of central and southern Europe, slightly above 80° in places, and as high as 88° at Madrid.

Wind in morning mainly South-Westerly over the United Kingdom and Southerly in Scandinavia. Light or moderate generally, but strong at Skudesnaes. A complete cyclonic circulation prevailing over the south of Russia and its vicinity, and light or moderate breezes from between West and North-West over the western portion of the Mediterranean. No change of importance during day.

Barometer in morning above 30·2 ins. in an anticyclonic band extending from the Bay of Biscay to the Netherlands. Below 29·7 ins. in a depression having its centre between the Black Sea and Poland, and below 29·4 ins. in another system over the Icelandic region. Relatively low over Italy and the adjacent Islands. Northern depression travelling eastwards during day, and a secondary disturbance of a V-shaped character moving in a similar direction over these Islands.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	June 29th, 1.58 p.m. to 3.49 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	286° 72% 29°, 5	285° 77% 31°, 6	284° 78% 34°, 7	280° 87% 34°, 10				280° 88% 33°, 11	1,100	Fair. Moderate breeze. Clouds, Cu. and A.-Cu. 5-9. Two kites on one wire.
2	June 30th, 8.19 a.m. to 9.28 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 78% 28°, 5	282° 81% 23°, 7	281° 83% 21°, 8	278° 87% 8°, 12				278° 7% 7°, 12	1,620	Fair to fine. Moderate breeze. Clouds, Cu.-Ni. to Cu. 8-3. Two kites on one wire.
3	July 1st, 10.20 a.m. to 11.20 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	288° 70% 30°, 3		283° 70% 30°, 9					282° 75% 30°, 9	700	Overcast. Wind failed and kite could not be kept up. A second attempt at 3 p.m. gave similar result, but 3° higher temp.
4	July 2nd, 4.20 a.m. to 5.0 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281° 78% 135°, 1	282° 69% 148°, 1	283° 63% 156°, 1	280° 45% 162°, 1	278° 45 % 160°, 1			278° 45% 160°, 1	1,700	Captive balloon ascent about sunrise. Very fine. Light air. Clouds, Ci.-Cu. and A.-Cu. 4 to 1. Temp. inversion at 500 m. Humidity decreased considerably with altitude.
5	July 3rd, 8.14 a.m. to 9.35 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	288° 88% 225°, 5	287° 91% 225°, 6	287° 92% 225°, 7	284° 93% 225°, 12	283° 77% 225°, 12			282° 78% 225°, 12	1,600	Overcast and dull. Gentle breeze. Clouds, Ni. 10.
6	July 3rd, 11.6 a.m. to 1.5 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	289·5° 85% 220°, 3	287·5° 85% ? 7	286° 65% 230°, 9	284° 80% 230°, 9				283° 80% 230°, 9	1,100	Heavy scud at 250 m. clearing and showing a little cirrus.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6
No. of Kites	2	2	1	1	1	2
Area of Surface (sq. metres) ..	15	15	7	—	7·5	9·5
Capacity of Balloon (cub. metres)	—	—	—	3	—	—
Length of Wire (metres)	1,250	920	900	1,600	1,700	1,200

63, Victoria Street, London, S.W. *July 7th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 27. TWENTY-SEVENTH WEEK, SUNDAY JULY 4TH TO SATURDAY JULY 10TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was generally unsettled, with much cloud and rather frequent showers, or periods of steady rain. Brief thunderstorms were experienced some time during the week in nearly all parts of England and also in the east of Ireland.

Temperature was below the average, the deficit ranging from 0·7° in Scotland, N., to more than 2° in most of the English districts and in Ireland, N. The highest of the maxima were recorded at most stations either on the 8th or 9th, and varied from 75° in the Midland Counties to 67° in Ireland, N. and the English Channel. At several places some of the daily maximum readings were below 60°, at Cromer on Thursday the highest reading was only 54°. The lowest of the minima, which were registered on various dates, ranged from 41° in England, S.E., and 42° in Scotland, W. to 49° in Ireland, S., and to 53° in the English Channel. The lowest grass readings reported were 32° at Llangammarch Wells, 35° at Greenwich and Crathes, 37° at Cambridge, and 38° at Cirencester.

Mean Temperature of the Sea.—On most coasts the water was again colder than during the corresponding week of last year, and the increase in temperature since the preceding week was very slight generally. The actual weekly means ranged from 60·3° at Margate, about 60° at Eastbourne and Seafield, and above 59° on the south-west coast of England to 51°·7 at Burnmouth, and to 50°·0 at Lerwick.

Rainfall exceeded the average in all districts, the excess being considerable or large generally, but very slight in the north and west of Scotland.

Bright Sunshine was deficient in all parts of the Kingdom, the divergence from the average being greatest in the east and south-east of England. The percentage of the possible duration ranged from 40 in the English Channel, 35 in England, S.W., and 32 in the Midland Counties to 21 in Ireland, N., and to 15 in Scotland, N.

Barometer and Wind.—Low pressure systems in the Icelandic region extended or moved in a south-easterly direction over our northern districts and the North Sea, while several local and ill-defined secondary disturbances travelled in a similar direction more directly over the United Kingdom. The main current of wind was consequently between West and North-West or North; it varied a good deal in force, but was generally light during the earlier half of the week, and fresh or strong later. During Saturday the Northerly wind reached the strength of a gale at Roche's Point.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 220.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Oeficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Moderate	Moderate	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Heavy	Moderate	Moderate	Heavy
	Sunshine ...	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Scanty	Scanty	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 5 weeks from June 6th, 1909.	Warmth ...	0 * 3	0 * 4	0 * 5	0 * 4	0 * 4	0 * 5	0 * 3	0 * 4	0 * 4	0 * 3	0 * 3	0 * 4
	Rainfall ...	1 * 3	1 * 2	2 * 3	2 * 1	2 * 1	2 * 1	1 * 2	2 * 2	2 * 2	1 * 2	1 * 3	2 * 2
	Sunshine ...	0 * 2	1 * 1	0 * 4	0 * 4	0 * 4	0 * 3	1 * 1	1 * 2	2 * 2	0 * 2	0 * 2	2 * 1

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	5 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5

8016 450 Wy. & S. Ltd. 7—09.

II. SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-SEVENTH WEEK—July 4th to July 10th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	68	45	59·1	49·1	53·8	− 0·7	83	− 5	0	0	6	+ 2	0·90	+0·12	19	− 12	15	−10
Eastern																		
1. SCOTLAND, EAST	73	43	62·4	48·6	55·0	− 1·3	91	− 9	0	0	4	0	0·84	+0·21	34	− 6	28	− 5
2. ENGLAND, N.E.	72	43	64·0	51·0	57·1	− 1·5	106	− 10	0	0	5	+ 2	0·79	+0·33	35	− 12	30	−11
3. ENGLAND, EAST	73	44	65·5	51·8	58·2	− 2·3	113	− 16	0	0	5	+ 2	0·93	+0·51	33	− 19	29	−16
4. MIDLAND COUNTIES	75	45	65·0	51·6	57·8	− 2·1	111	− 15	0	0	5	+ 2	0·75	+0·28	36	− 11	32	− 9
5. ENGLAND, S.E.	73	41	65·4	52·2	58·4	− 2·6	115	− 18	0	0	5	+ 3	0·84	+0·44	34	− 19	30	−17
Western																		
6. SCOTLAND, WEST	72	42	61·6	49·9	55·4	− 1·7	94	− 11	0	0	4	0	0·80	+0·01	37	− 5	31	− 4
7. ENGLAND, N.W.	69	46	61·6	52·0	56·4	− 2·3	101	− 16	0	0	5	+ 2	0·88	+0·30	35	− 10	30	− 8
8. ENGLAND, S.W.	70	44	62·6	52·2	57·0	− 2·4	105	− 17	0	0	5	+ 2	0·81	+0·28	40	− 9	35	− 8
9. IRELAND, NORTH	67	48	60·4	50·8	55·3	− 2·1	93	− 15	0	0	6	+ 2	0·81	+0·18	25	− 9	21	− 7
10. IRELAND, SOUTH	70	49	62·9	51·9	57·1	− 1·7	106	− 12	0	0	5	+ 1	0·81	+0·21	32	− 7	28	− 6
11. ENGLISH CHANNEL	67	53	62·3	54·8	58·3	− 2·3	114	− 17	0	0	4	+ 1	0·90	+0·45	45	− 15	40	−13

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 5 Weeks, June 6th to July 10th, 1909.

0. SCOTLAND, NORTH	71	35	*	*	*	*	346	− 48	0	− 2	20	+ 1	2·70	−0·68	147	− 28	24	− 5
Eastern																		
1. SCOTLAND, EAST	75	31	*	*	*	*	367	− 76	0	− 1	17	+ 1	2·51	−0·16	194	− 14	32	− 2
2. ENGLAND, N.E.	73	33	*	*	*	*	412	− 78	0	0	18	+ 4	2·99	+0·82	149	− 74	25	−13
3. ENGLAND, EAST	75	35	*	*	*	*	455	−100	0	0	19	+ 5	2·99	+0·71	174	− 70	30	−12
4. MIDLAND COUNTIES	75	33	*	*	*	*	435	−115	0	0	19	+ 5	3·15	+0·78	155	− 66	27	−11
5. ENGLAND, S.E.	73	35	*	*	*	*	464	−120	0	0	19	+ 6	3·00	+0·86	187	− 63	33	−11
Western																		
6. SCOTLAND, WEST	74	32	*	*	*	*	415	− 67	0	0	17	0	3·79	+0·34	225	+ 6	38	+ 1
7. ENGLAND, N.W.	74	32	*	*	*	*	422	− 99	0	0	17	+ 1	3·07	+0·41	198	− 31	34	− 5
8. ENGLAND, SW.	75	30	*	*	*	*	457	− 91	0	0	17	+ 2	2·87	+0·25	231	− 11	41	− 2
9. IRELAND, NORTH	75	33	*	*	*	*	423	− 61	0	0	19	0	3·10	+0·01	165	− 26	28	− 4
10. IRELAND, SOUTH	76	36	*	*	*	*	484	− 52	0	0	17	0	2·57	−0·37	178	− 32	31	− 6
11. ENGLISH CHANNEL	71	42	*	*	*	*	524	− 55	0	0	12	− 4	1·95	−0·16	303	+ 15	54	+ 3

THE YEAR.—Aggregates, &c., for the Period of 27 Weeks, January 3rd to July 10th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	775	− 67	535	− 22	123	0	19·13	−5·09	644	− 26	27	− 1
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	845	−129	673	+ 53	104	+ 4	16·77	+2·84	738	− 38	31	− 2
2. ENGLAND, N.E.	81	14	*	*	*	*	1010	− 32	580	+105	92	+ 1	12·34	+1·69	806	− 19	34	− 1
3. ENGLAND, EAST	82	12	*	*	*	*	1124	−122	554	+ 33	94	+ 5	11·12	+0·52	938	+ 59	39	+ 2
4. MIDLAND COUNTIES	82	8	*	*	*	*	1155	−114	642	+109	87	− 1	11·96	−0·12	841	+ 53	35	+ 2
5. ENGLAND, S.E.	82	0	*	*	*	*	1166	−185	482	+101	90	+ 6	12·90	+1·15	1094	+123	42	+ 5
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	1002	− 72	445	+ 20	100	− 6	21·31	+0·04	830	+ 38	34	+ 2
7. ENGLAND, N.W.	79	10	*	*	*	*	1059	− 86	466	+ 80	94	− 3	15·00	+0·05	918	+118	38	+ 5
8. ENGLAND, S.W.	81	7	*	*	*	*	1142	−171	390	+ 89	95	0	15·38	−1·32	977	+ 98	41	+ 4
9 IRELAND, NORTH	75	14	*	*	*	*	1095	− 49	315	− 30	118	+ 4	17·13	+0·08	740	− 11	31	0
10. IRELAND, SOUTH	76	15	*	*	*	*	1309	− 46	265	+ 6	111	+ 8	18·06	−0·40	838	+ 6	35	0
11. ENGLISH CHANNEL	78	25	*	*	*	*	1486	− 12	151	+ 42	90	−13	14·01	−0·02	1167	+116	49	+ 5

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked Ⓜ is supplied by the Royal Meteorological Society, and that for Stations marked Ⓢ is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N. a, Islands.	*p Balta Sound* S	*57*	*6th*	*44*	*9th*	*55·6*	*48·1*	*51·6*	—	67	*0*	*6*	*1·01*	—	*24·2*	—	*19*	—	*Balta Sound.*
	a Sumburgh Head ..	59	7th	46	9th	55·1	48·0	51·3	+ 0·2	65	0	5	0·92	+ 0·44	2·9	- 30·2	2	- 24	Deerness.
	a Stornoway	62	8th	49	6th	58·6	50·4	54·2	+ 0·9	85	0	7	0·73	+ 0·10	26·5	- 12·8	21	- 10	Stornoway.
	a Castlebay, Barra Isd.	*59*	*10th*	*50*	*10th*	*57·6*	*51·4*	*54·3*	- *1·8*	*86*	*0*	*6*	*0·47*	—	*34·9*	—	*29*	—	*Castlebay.*
	a Wick	63	9th	47	8th, 9th	58·1	48·4	52·9	- 0·6	76	0	7	0·99	+ 0·45	*	*	*	*	
b, Mainland.	*p* Strathpeffer ..	67	8th	49	6th	62·5	50·6	56·1	+ 0·8	99	0	5	0·60	+ 0·03	24·5	- 8·8	20	- 7	Strathpeffer.
	p Glencarron ..	62	8th	47	8th	57·2	48·5	52·6	- 0·9	74	0	?5	1·14	+ 0·03	*	*	*	*	
	p Fort Augustus	68	8th	45	6th	61·7	48·6	54·7	- 0·5	89	0	5	0·69	+ 0·10	20·0	- 7·7	16	- 6	Fort Augustus.
	p Fort William	67	8th	47	8th	60·6	49·2	54·5	- 1·4	88	0	6	1·26	+ 0·26	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	68	9th	44	9th	62·6	48·0	54·8	- 1·5	90	0	4	0·66	+ 0·06	*31·7*	—	*26*	—	*Gordon Castle.*
	a Nairn	65	5th	43	6th	61·4	48·4	54·5	- 1·0	88	0	4	0·56	+ 0·06	31·6	—	26	—	Nairn.
	a Aberdeen	66	9th	45	9th	61·7	50·7	55·8	+ 0·6	97	0	4	1·93	+ 1·39	27·0	- 13·0	22	- 11	Aberdeen.
	a Balmoral ..	64	5th, 8th	43	10th	61·4	46·0	53·2	- 0·5	78	0	3	0·80	+ 0·26	22·1	—	18	—	Crathes S.
	p Crieff	73	8th	46	6th	65·7	49·0	56·8	- 0·3	104	0	5	0·30	- 0·36	43·5	—	36	—	Balruddery
	a Leith	70	8th	50	6th, 10th	63·6	51·4	57·1	- 0·1	106	0	5	0·64	+ 0·11	38·3	+ 4·9	32	+ 4	Edinburgh.
	a West Linton .. S	68	8th	44	10th	59·8	47·4	53·2	- 1·7	78	0	6	1·28	—	*27·6*	—	*23*	—	*West Linton.*
	p Marchmont .. S	67	4th	45	6th	62·6	47·6	54·6	- 0·9	88	0	5	0·55	- 0·08	40·7	- 0·9	34	- 1	Marchmont.
2. ENGLAND, N.E. a, North.	*a* Alnwick Castle ..	64	8th	43	9th	61·7	48·6	54·7	- 1·3	89	0	5	0·38	- 0·17	37·4	—	31	—	Cockle Park.
	a Shields	69	9th	48	6th, 9th	62·1	49·6	55·4	- 0·9	94	0	5	0·39	- 0·11	*30·5*	- *2·5*	*26*	- *2*	*Newcastle.*
	p Durham	71	9th	46	9th	64·5	49·3	56·4	- 0·8	101	0	5	0·60	+ 0·04	34·3	- 5·2	29	- 4	Durham.
	p Rounton .. M	66	9th	44	9th	62·8	49·2	55·5	- 1·4	95	0	5	1·02	+ 0·50	*	*	*	*	
	p Scarborough .. M	70	9th	49	9th	64·4	52·6	58·1	+ 0·7	113	0	5	1·04	+ 0·56	31·4	—	27	—	Scarborough.
	p York	68	8th	48	9th	64·6	52·3	58·0	- 0·9	112	0	5	0·58	+ 0·06	27·7	- 12·9	24	- 11	York.
b, South.	*a* Spurn Head	72	4th	52	8th, 9th	63·9	53·3	58·2	+ 0·3	118	0	5	0·93	+ 0·57	*	*	*	*	
	a Lincoln	71	9th	48	9th	66·3	51·7	58·5	- 1·2	116	0	6	0·99	+ 0·52	39·1	—	34	—	Skegness.
	a Fulbeck	71	9th	48	9th	66·1	52·4	58·8	- 0·6	118	0	5	1·15	+ 0·68	37·1	—	32	—	Rauceby.
															37·2	—	*32*	—	*Lowestoft.*
3. ENGLAND, E. a, North.	*p* Cromer	71	9th	51	5, 7, 9th	64·1	52·3	57·8	- 0·7	111	0	5	0·91	—	33·1	—	29	—	Cromer.
	p Hillington .. M	71	9th	44	5th	65·5	50·1	57·3	- 1·9	107	0	6	1·12	+ 0·55	39·6	- 6·1	34	- 5	Hillington.
	a Yarmouth	71	9th	50	5th	63·6	52·9	57·9	- 0·6	111	0	6	0·86	+ 0·36	40·0	—	35	—	Yarmouth.
	a Norwich	71	9th	49	9th	65·7	52·8	58·8	- 0·3	118	0	5	0·97	—	*	*	*	*	
	p Geldeston	70	4, 5, 9th	48	5th	65·7	51·1	57·9	- 0·9	111	0	5	1·21	+ 0·75	33·7	- 14·3	29	- 12	Geldeston.
	p Cambridge	73	9th	45	5th	66·5	50·7	58·1	- 2·1	113	0	5	1·09	+ 0·59	29·9	- 18·0	26	- 15	Cambridge.
b, South.	*a Felixstowe*	*68*	*9th*	*49*	*5th*	*63·0*	*52·9*	*57·6*	- *2·1*	*109*	*0*	*5*	*1·04*	—	*31·5*	—	*28*	—	*Felixstowe.*
	a Clacton-on-Sea ..	71	9th	50	9th	66·0	53·1	59·1	- 0·5	120	0	5	0·85	—	26·8	—	24	—	Clacton.
	a Rothamsted ..	71	9th	46	5th	65·4	50·9	57·7	- 1·1	110	0	5	0·62	+ 0·09	29·5	- 17·4	26	- 15	Rothamsted.
	a Shoeburyness ..	*70*	*9th*	*50*	*9th*	*66·1*	*53·3*	*59·3*	- *2·2*	*121*	*0*	*5*	*0·37*	- *0·03*	*28·6*	—	*25*	—	*Southend.*
	p Tottenham	73	4th	50	5th, 9th	66·7	52·7	59·2	- 1·6	120	0	4	0·72	—	33·5	—	29	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	*a* Harrogate	67	4th, 8th	48	9th	62·4	50·3	55·9	- 0·9	97	0	5	1·03	+ 0·49	32·8	—	28	—	Harrogate.
	a Bawtry	72	9th	45	5th	65·3	50·4	57·3	- 1·8	107	0	5	0·79	+ 0·32	33·1	- 5·3	29	- 5	Worksop.
	p Buxton .. M	*66*	*9th*	*49*	*7th*	*60·7*	*50·2*	*55·1*	- *1·3*	*92*	*0*	*6*	*1·28*	+ *0·49*	*32·8*	—	*28*	—	*Buxton.*
	a Nottingham ..	72	9th	50	5th	65·6	53·3	59·0	- 0·2	119	0	5	0·89	+ 0·39	34·8	—	30	—	Nottingham.
	p Birmingham, Edgbsn	72	9th	50	7th, 9th	63·7	52·3	57·6	- 0·9	109	0	5	0·73	+ 0·23	34·4	—	30	—	Birmingham.
	a Raunds .. M	75	9th	46	5th	67·2	51·6	58·9	- 1·2	118	0	5	0·83	—	*	*	*	*	
	a Oxford	71	9th	48	9th	66·6	52·6	59·1	- 0·9	120	0	5	0·62	+ 0·08	37·2	- 8·6	33	- 8	Oxford.
b, West.	*a* Cheadle .. M	71	9th	48	7th	63·3	50·3	56·4	- 0·5	101	0	6	1·24	+ 0·64	34·1	—	29	—	Sheffield.
	p Shrewsbury	71	9th	47	9th	63·7	52·4	57·7	- 0·8	110	0	4	0·39	—	*	*	*	*	
	a Hereford .. M	74	9th	47	5th	66·7	50·8	58·2	- 1·2	113	0	3	0·41	- 0·09	*	*	*	*	
	a Cirencester	69	9th	45	9th	65·1	50·5	57·3	- 0·9	107	0	5	0·67	+ 0·11	39·9	- 5·1	35	- 5	Cirencester.
	a Bath	68	4th, 8th	48	5th	65·1	52·6	58·4	- 1·2	115	0	5	0·67	+ 0·11	43·1	—	38	—	Bath.
															30·9	—	*27*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	71	9th	50	5th, 9th	66·5	53·2	59·4	- 1·1	122	0	4	0·80	+ 0·29	33·2	- 12·9	29	- 11	Kew.
	a Marlborough ..	68	9th	41	9th	64·6	49·5	56·5	- 2·3	102	0	5	0·87	+ 0·29	35·1	- 7·3	31	- 6	Marlborough.
	a Margate	71	9th	53	6, 7, 8, 9	64·7	53·7	58·8	- 1·9	118	0	6	0·86	+ 0·42	22·8	- 20·9	20	- 18	Margate.
	a Wisley, Surrey ..	73	9th	48	5th	65·2	52·5	58·4	- 2·9	115	0	4	0·70	—	37·9	—	34	—	Wisley.
	a Swarraton .. M	70	9th	47	9th	65·9	51·5	58·2	- 0·3	113	0	4	0·79	+ 0·27	34·5	—	31	—	Worthing.
	a Tunbridge Wells M	71	4th, 9th	47	5th	66·1	50·4	57·7	- 1·6	110	0	5	1·12	+ 0·62	33·1	- 14·3	29	- 13	Tunbridge Wells.
	a Dungeness	67	8th	49	5th	63·3	52·0	57·3	- 2·0	107	0	7	1·07	+ 0·69	19·9	—	18	—	Littlestone.
	p Hastings	67	5th, 9th	50	7th, 9th	64·7	52·6	58·2	- 1·3	113	0	6	0·97	+ 0·51	*32·0*	- *22·0*	*28*	- *20*	*Hastings.*
	p Southampton ..	72	4th, 9th	48	9th	67·1	53·0	59·6	- 1·8	123	0	4	0·46	- 0·04	46·3	- 3·5	41	- 3	Southampton.
	a Ventnor	70	8th	51	7th	65·9	53·9	59·5	- 1·3	123	0	5	0·73	+ 0·26	44·5	- 2·2	39	- 2	Ventnor.
															31·9	- 21·7	28	- 19	Eastbourne.
LONDON	*a Westminster* ..	*71*	*4th, 9th*	*51*	*5th, 9th*	*67·0*	*53·4*	*59·7*	- *1·4*	*124*	*0*	*5*	*0·90*	+ *0·40*	*29·7*	- *10·8*	*26*	- *9*	*Westminster.*
	a Greenwich	*74*	*9th*	*46*	*5th*	*68·5*	*52·3*	*59·8*	- *2·2*	*125*	*0*	*5*	*0·75*	+ *0·25*	*31·2*	- *19·1*	*27*	- *17*	*Greenwich.*
6. a, SCOTLAND. W. ..	*p* Landale	64	8th	49	8th, 10th	61·0	50·5	55·4	- 0·8	94	0	4	0·95	- 0·05	*	*	*	*	
	a Poltalloch .. S	63	9th	—	—	59·7	—	—	—	—	—	5	0·88	+ 0·05	*	*	*	*	
	p Glasgow	66	8th	47	10th	62·2	50·1	55·7	- 0·8	96	0	6	0·64	- 0·02	34·7	- 0·8	29	- 1	Glasgow.
	p Rothesay .. S	65	10th	48	10th	61·7	50·6	55·8	- 1·6	97	0	5	1·00	+ 0·19	*	*	*	*	
	a Kilmarnock	66	10th	42	10th	63·1	47·3	54·7	- 2·5	89	0	4	0·88	—	*34·3*	—	*29*	—	*Kilmarnock.*
	a Colmonell	63	8th, 10th	48	10th	61·0	50·1	55·2	- 1·6	92	0	5	1·29	+ 0·63	*	*	*	*	
	p Dumfries	67	9th	50	7, 8, 9th	62·3	51·1	56·3	- 1·7	100	0	4	0·57	- 0·08	*	*	*	*	
	p Cally, Gatehouse S	72	8th	47	7th	63·3	48·8	55·6	- 1·5	95	0	4	0·46	- 0·31	*	*	*	*	
b, ISLE OF MAN ..	*p* Douglas	62	4th	50	6, 7, 8, 10	58·5	50·8	54·4	- 1·8	87	0	2	0·57	- 0·07	38·8	- 9·6	33	- 8	Douglas.
															41·2	—	35	—	Hoylake.
7. a, ENGLAND, N.W. ..	*p* Aspatria	69	8th	47	10th	62·3	49·8	55·6	- 0·5	95	0	6	1·39	+ 0·69	32·0	—	27	—	Aspatria.
	p Newton Rigg ..	69	8th	46	9th	62·4	49·2	55·3	- 0·7	93	0	5	0·90	+ 0·31	37·2	- 7·0	32	- 6	Newton Rigg.
	p Stonyhurst	65	8th	50	9th	60·5	52·3	56·1	- 2·1	99	0	6	1·54	+ 0·75	33·6	- 9·9	29	- 9	Stonyhurst.
	p Blackpool .. M	62	4th, 5th	52	6th	60·6	53·6	56·9	- 1·1	104	0	4	0·76	+ 0·21	46·8	+ 2·4	40	+ 2	Blackpool.
	p M'nch'ster, Prestwich	67	8th, 9th	51	7, 9, 10th	62·9	52·2	57·2	- 0·6	106	0	6	0·90	+ 0·22	*27·0*	- *11·2*	*23*	- *10*	*Prestwich.*
	a Liverpool (Bidston)	66	9th	53	6, 7, 9, 10	61·0	53·7	57·1	- 2·1	106	0	4	0·62	+ 0·05	*45·9*	—	*39*	—	*Liverpool.*
	a Hawarden Bridge ..	68	9th	51	9th	62·2	53·1	57·3	- 1·7	107	0	5	0·34	- 0·12	*44·2*	- *2·2*	*38*	- *2*	*Southport.*
															38·3	—	*33*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	66	4th	51	10th	62·1	52·9	57·2	- 1·4	106	0	4	0·83	+ 0·34	35·6	- 9·1	31	- 8	Llandudno.
	a Holyhead	64	4th	51	9th	60·3	52·0	55·9	- 1·3	97	0	5	0·79	+ 0·25	35·2	—	31	—	Aberdovey.
	p Bettws-y-Coed ..	64	9th	46	9th	61·3	50·7	55·6	- 3·3	95	0	3	0·76	—	19·4	—	17	—	Bettws-y-Coed.
															24·1	—	21	—	Aberystwyth.
8. a, SOUTH WALES ..	*a* Llangammarch Wells	67	9th	44	9th	61·6	49·1	54·9	- 2·2	90	0	5	0·99	—	30·4	—	27	—	Llangammarch Wells.
	a Pembroke	61	4th, 8th	51	7th	59·3	52·4	55·8	- 1·6	95	0	4	0·20	+ 0·38	42·0	- 8·1	37	- 7	Pembroke.
	a Cardiff	66	5th, 8th	49	5th, 9th	62·7	51·3	56·6	- 3·3	102	0	5	0·79	+ 0·14	*54·7*	—	*48*	—	*Cardiff.*
															32·0	- *19·0*	*28*	- *17*	*Tenby.*
b, ENGLAND, S.W. ..	*a* Clifton	70	10th	52	9th	66·2	54·2	59·8	- 0·6	125	0	4	0·94	+ 0·34	*41·1*	—	*36*	—	*Clifton.*
	a Shaftesbury .. M	67	4, 5, 9th	47	9th	63·7	50·6	56·7	- 1·7	103	0	5	0·80	+ 0·24	*	*	*	*	
	a Arlington	63	5th	46	5th	59·4	50·1	54·4	- 2·5	87	0	6	1·34	+ 0·52	45·2	- 3·8	40	- 3	Newquay.
	a Cullompton .. M	70	9th	46	5th	66·0	52·1	58·6	- 0·6	116	0	4	0·66	+ 0·08	42·3	- 1·7	37	- 2	Cullompton.
	a Portland Bill ..	63	4, 5, 7th	53	7th	61·3	54·7	57·8	- 0·9	111	0	4	0·51	—	*54·4*	—	*48*	—	*Weymouth.*
	p Plymouth	67	9th	51	5th, 10th	63·6	53·0	57·9	- 1·9	111	0	4	0·59	+ 0·02	49·5	+ 1·9	44	+ 2	Plymouth.
	p Falmouth	65	9th	53	6th	62·0	54·1	57·8	- 1·2	111	0	4	0·61	+ 0·01	46·5	- 4·9	41	- 4	Falmouth.
															53·8	+ *1·1*	*48*	+ *1*	*Torquay.*
9. IRELAND, N. a, West.	*a* Malin Head	59	8th	50	6, 8, 10th	57·1	50·7	53·7	- 1·8	82	0	7	1·14	+ 0·56	*	*	*	*	
	a Blacksod Point ..	61	4, 5, 7, 8th	49	5th	60·0	51·1	55·2	- 1·4	92	0	7	0·85	+ 0·21	*	*	*	*	
	p Markree Castle ..	62	5th, 8th	48	10th	60·6	50·4	55·1	- 0·7	92	0	7	0·84	+ 0·12	24·4	- 9·1	21	- 8	Markree Castle.
	a Birr Castle	67	8th	49	7th. 10th	62·3	51·0	56·3	- 1·3	100	0	5	0·80	+ 0·20	*33·5*	- *1·8*	*29*	- *2*	*Birr Castle.*
b, East.	*p* Armagh	67	8th	48	7th	61·8	50·3	55·7	- 1·0	96	0	6	0·67	+ 0·04	25·6	- 10·9	22	- 9	Armagh.
	a Donaghadee	62	4th, 9th	50	10th	60·3	51·4	55·5	- 1·0	95	0	4	0·54	- 0·05	*	*	*	*	
10. IRELAND, S. a, East.	*p* Dublin, City	68	8th	50	7th	64·2	52·4	57·9	- 1·8	111	0	4	0·74	+ 0·24	37·1	- 5·7	32	- 5	Phœnix Park.
	a Kilkenny	68	8th	50	10th	63·9	51·4	57·2	- 1·7	106	0	4	0·43	- 0·15	*	*	*	*	
	a Waterford	70	8th	50	10th	64·6	51·4	57·5	- 1·2	109	0	4	0·47	- 0·23	*	*	*	*	
	a Birr Castle	67	8th	49	7th, 10th	62·3	51·0	56·3	- 1·3	100	0	5	0·80	+ 0·20	33·5	- 1·8	29	- 2	Birr Castle.
	a Foynes	64	8th	51	5th, 8th	60·8	52·1	56·2	- 1·9	99	0	7	1·37	+ 0·77	*	*	*	*	
b, West.	*a* Cahir	69	9th	50	5th, 7th	63·4	51·4	57·0	- 1·4	105	0	6	0·63	—	*	*	*	*	
	a Killarney	68	7th	50	10th	64·4	52·1	57·8	+ 0·1	111	0	5	1·14	+ 0·45	*	*	*	*	
	a Valencia	61	4, 5, 8th	51	10th	60·0	53·1	56·3	- 1·3	100	0	7	1·22	+ 0·41	17·4	- 22·1	15	- 19	Valencia.
	a Roche's Point ..	67	8th	52	5, 6, 9, 10	62·6	52·6	57·3	- 0·8	107	0	5	0·51	- 0·13	38·5	—	34	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	62	4th	54	6, 7, 10th	60·4	55·1	57·6	- 2·1	109	0	4	0·76	+ 0·29	45·0	- 9·0	40	- 8	Scilly.
	a Jersey, St. Aubins ..	66	4th	53	7, 8, 9th	63·1	54·7	58·6	- 2·1	116	0	3	1·02	+ 0·52	40·7	- 15·3	36	- 14	St. Heliers.
	a Guernsey	67	4th, 5th	53	5th	63·4	54·6	58·7	- 1·5	117	0	4	0·91	+ 0·42	48·6	- 8·6	43	- 8	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 37·5 hrs.* (*-14·6 hrs.*), *33* % (*-13* %); *Bournemouth, 47·4 hrs., 42* %; *Bognor, 36·4 hrs., 32* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	53·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	51·7
	Crathes	0	35	57·3	52·6
	Balmoral	0	40	—	—
	West Linton	0	42	—	—
	Marchmont	0	40	56·6	—
2.	Cockle Park	0	41	55·9	52·9
	Durham	0	43	—	—
	York	—	—	57·5	53·7
	Hull	0	40	58·6	52·6
	Lincoln	—	—	58·3	53·4
	Rauceby	0	47	60·9	54·3
3.	Norwich	0	44	—	—
	Yarmouth	—	—	62·9	58·4
	Lowestoft	0	44	61·0	56·4
	Cambridge	0	37	60·6	56·4
	Clacton-on-Sea	0	43	59·2	56·9
	Southend	0	49	60·6	—
	Tottenham	0	46	—	56·1
4.	Harrogate	0	43	54·4	52·2
	Huddersfield	0	45	58·4	51·8
	Buxton	0	45	55·1	50·6
	Sheffield	0	42	57·1	51·8
	Nottingham	0	41	58·7	54·7
	Birmingham	0	39	53·8	50·2
	Oxford	0	—	—	—
	Hereford	0	40	—	—
	Cirencester	0	38	—	—
5.	Margate	0	50	58·1	55·1
	Greenwich	0	35	—	—
	Westminster	0	42	—	—
	Kew	0	41	59·9	54·9
	Canterbury	0	47	57·5	55·4
	Tunbridge Wells	0	41	61·0	—
	Wisley	0	42	60·2	56·4
	Worthing	0	45	61·4	56·5
	Portsmouth	0	45	61·9	57·9
6.	Glasgow	0	40	—	—
	Rothesay	—	—	—	53·9
	Colmonel	0	46	—	—
	Dumfries	—	—	—	—
	Douglas	0	45	—	—
7.	Aspatria	0	44	—	—
	Newton Rigg	0	42	58·3	53·2
	Burnley	0	46	56·8	52·0
	Southport	0	49	62·6	58·0
	Manchester City	0	45	59·3	54·9
	Bettws-y-Coed	0	45	55·0	51·9
8.	Llangammarch Wells	0	32	56·6	52·0
	Cardiff	0	42	59·3	55·3
	Clifton	0	46	—	—
	Bath	—	—	61·0	56·6
	Plymouth	0	45	62·0	—
9.	Armagh	0	41	58·5	55·1
	Markree	0	47	—	—
10.	Dublin, Trin. Coll.	0	46	59·7	55·8
11.	Guernsey, Brooklyn	0	41	62·3	59·0

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	50	50	50·0
	Kirkwall	54	53	53·5
	Wick	57	56	56·1
SCOTLAND, E.	Cromarty	54	52	53·7
	Pennan Bay	56	53	54·3
	Aberdeen, Cove Bay	56	54	54·7
ENGLAND, N.E.	Burnmouth, Berwick	54	50	51·7
	Scarborough	55	53	53·7
ENGLAND, E.	Shipwash Lightship	60	56	58·5
	Margate‡	62	60	60·3
ENGLAND, S.E.	Eastbourne‡	60	59	59·9
SCOTLAND, W.	Lamlash	55	54	54·4
	Ballantrae	55	54	55·1
ENGLAND, N.W.	Port Erin	57	54	54·7
ENGLAND, S.W.	Newquay	59	59	59·0
	Plymouth‡	60	59	59·5
	Salcombe	57	56	56·2
IRELAND, N.W.	Sheephaven	58	58	58·0
	Teelin	62	55	58·2
IRELAND, S.W.	Cleggan	59	55	57·4
	Seafield	62	58	59·8
IRELAND, E.				

‡ Only one observation each day.

KITE ASCENTS ADDITIONAL TO THOSE SHOWN ON p. 224 WERE CARRIED OUT AT THE HOWARD ESTATE OBSERVATORY, GLOSSOP, AS FOLLOWS:—

July 5th 10.15 a.m. to 12. 3 p.m. Maximum Height 5,600 m.
July 6th 3. 5 a.m. to 4.41 a.m. " " 6,000 m.
July 6th 9.19 a.m. to 11. 5 a.m. " " 4,350 m.
July 7th and 8th 12.34 p.m. to 3.27 a.m. " " 7,800 m.
July 7th and 8th 7.12 p.m. to 9.23 p.m. " " 6,950 m.
July 9th 3. 1 p.m. to 4.45 p.m. " " 5,500 m.
July 9th 12.19 p.m. to 1.16 p.m. " " 3,400 m.
July 9th 7.12 p.m. to 9.23 p.m. " " 6,950 m.
July 9th 11.40 p.m. to 1.58 a.m. " " 6,600 m.
July 10th 5.42 a.m. to 7.13 a.m. " " 4,700 m.
July 10th 9.56 a.m. to 11.23 a.m. " " 5,000 m.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS. (See p. 224.)

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11
No. of Kites	1	1	2	2	1	1	1	2	1	1	1
Area of Surface (sq. metres)	7·9	7	15	15	4	7	7·5	15	7	5·8	7
Length of Wire (metres)	2,400	2,300	5,500	—	1,200	1,200	3,500	4,500	1,200	3,300	2,000

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

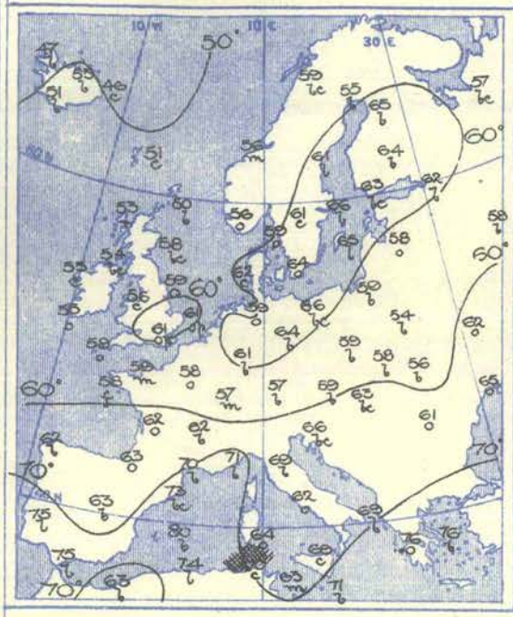
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

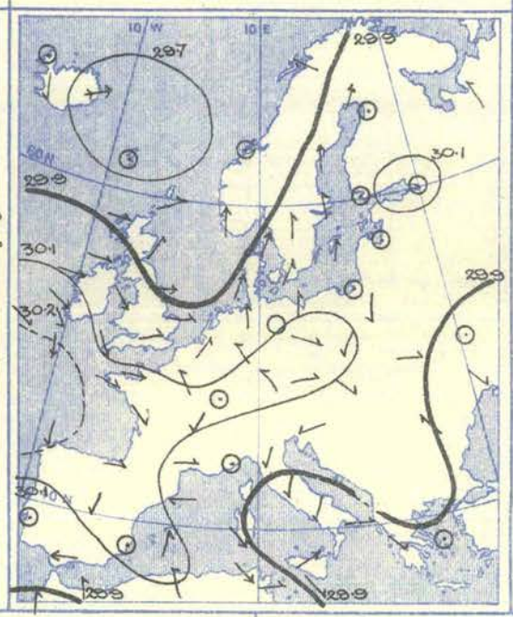
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 4th July, 1909.

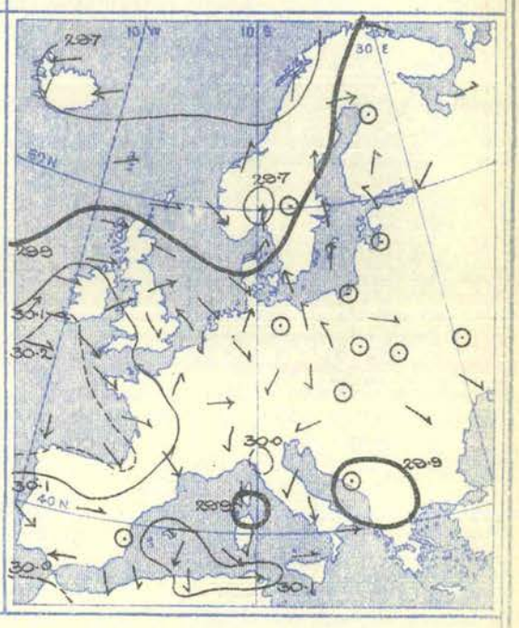
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning showery or rainy in the extreme north of Scotland, the south-east of England, the north of France, and the south of Norway, and cloudy or overcast in some other localities, but fair to very fine generally. Rain later in the Low Countries, Denmark, and Norway, and more than 1·5 in. at Brindisi, but conditions fair to fine as a whole.

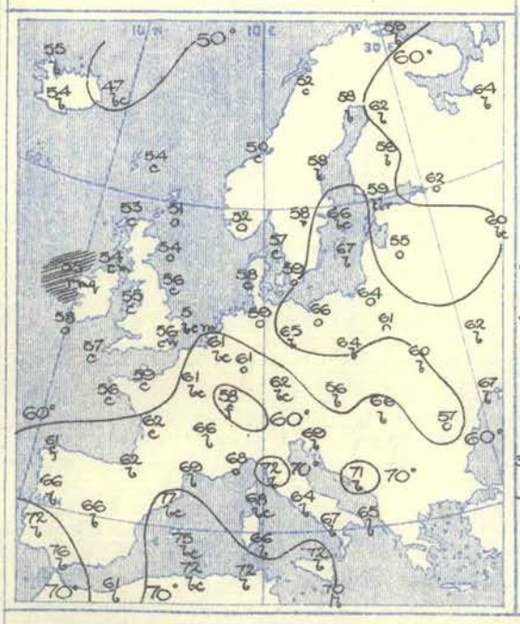
Temperature showing no decided change. Readings in morning about 60° over a large portion of England, and a few degrees on either side of 60° over the major portion of the Continent; above 70° at some of the most southern stations. Maxima during day about 70° at some English stations and also over a large area on the Continent; not much above 75° at most southern stations, but 86° at San Fernando, 88° at Lisbon, and 91° at Madrid.

Wind in morning light or moderate from North-West or West over the United Kingdom, and from the Southward beyond the North Sea. Light and rather variable breezes prevailing over the greater portion of our area, but a moderate North-Westerly to Northely breeze most prevalent over the Mediterranean. No general change later, but some backing taking place on the west coast of Ireland, and also at Scilly.

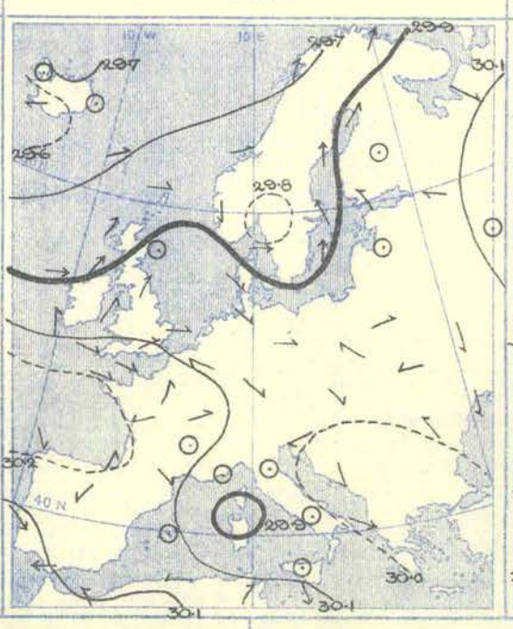
Barometer in morning below 29·7 ins. in a large depression between Norway and Iceland, and relatively low in the south-east of our area. Above 30·1 ins. over the Gulf of Finland and also in a narrow band extending from France to Poland, and above 30·2 ins. over the Bay of Biscay. A fresh fall of the barometer occurring later in day in Iceland, and also along the extreme western coasts of these Islands. Little modification taking place in the general distribution of pressure.

Monday, 5th July, 1909.

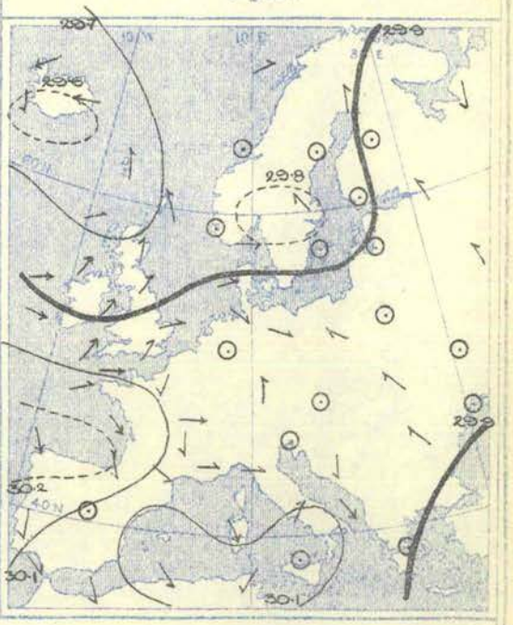
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying a good deal; fair or fine in most regions, but rainy in some parts of Germany and at Karlstad, and showery in the extreme north-west of these Islands. Some rain later in all parts of this country, and also at several stations in Germany and the north of France; amount not large.

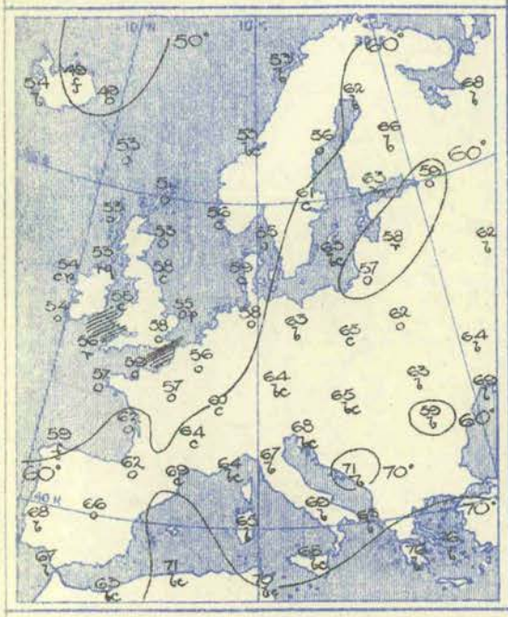
Temperature fallen in Portugal, Great Britain, and Norway, changed rather irregularly as a whole. Morning readings about 60° over the major portion of our area, but some degrees below in the north-western districts, and many degrees above it in the south of Europe. Above 75° at San Fernando and Barcelona. Maxima during day below 70° at all our own stations, but a little above it in Germany and central Europe, and between 70° and 80° in the south of our area generally; above 80° in places, and as high as 90° at Athens.

Wind in morning anticyclonic over the Bay of Biscay and the regions immediately surrounding. A cyclonic circulation prevailing over the Mediterranean and also over Scandinavia, and a partial cyclonic movement in the north-west of our area. Scarcely any station reporting a stronger force than a moderate breeze. Becoming more cyclonic later over these Islands and increasing somewhat in force on our west and south-west coasts.

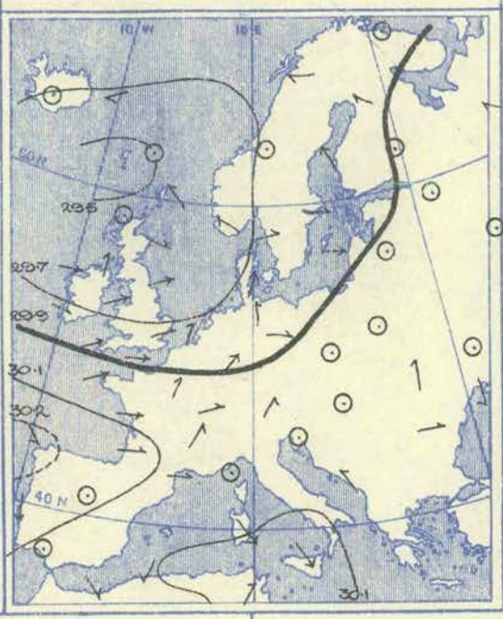
Barometer in morning above 30·2 ins. over the Bay of Biscay, and relatively high in an irregularly shaped band extending across central Europe to northern Russia. Below 29·9 ins. in a depression over Sardinia, below 29·8 ins. in another system centred over the Skager Rack, and less than 29·6 ins. off the south-west of Iceland. A secondary of a V-shaped character appearing over the United Kingdom later, and a large, but shallow, minimum between Iceland and Scotland.

Tuesday, 6th July, 1909.

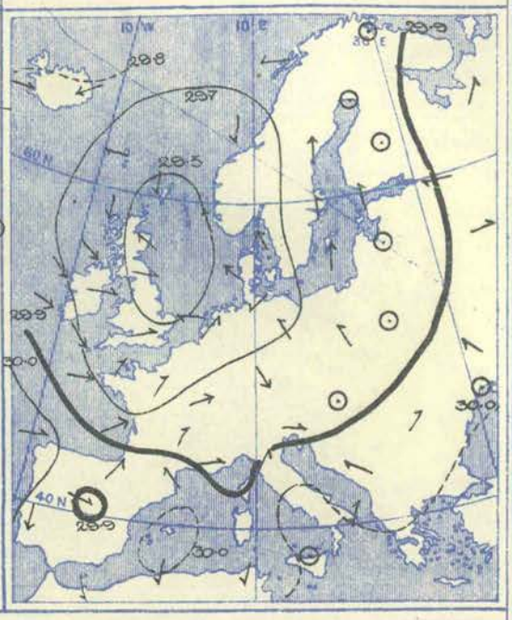
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning generally overcast in this country and the north of France, with rain or passing showers in several localities. Fair to fine in most other regions, but dull in places, and rainy at Riga. Rain falling later throughout the United Kingdom, in nearly all parts of France and central Europe, the Netherlands, and at some Norwegian stations; more than an inch at Paris and Frankfurt, and 0·9 in. at Zurich.

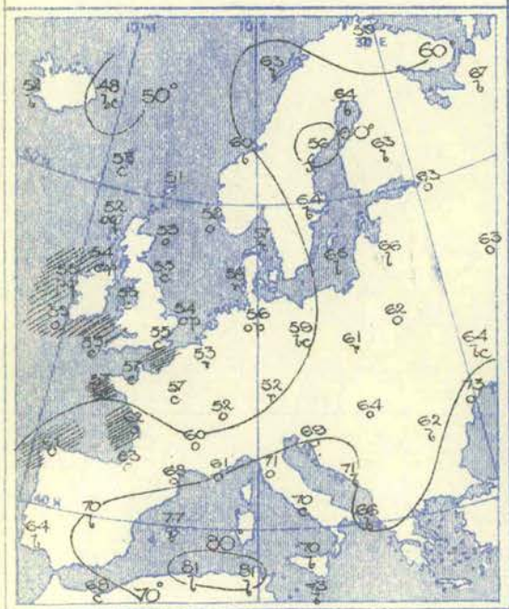
Temperature changed little, and rather irregularly as a whole. Morning readings ranging from 75° in Greece, about 70° at several stations in other parts of southern Europe, 68° at Archangel and Uleaborg, and 62° at Moscow, to below 60° over these Islands and a large portion of France, and to 52° in the north of Scotland. Maxima during day below 65° at almost all our own stations, but 70° or above at Archangel, 72° at St. Petersburg, rather above 70° at most places in the central countries and the southern half of France, and about 80° in various localities in the south of our area.

Wind in morning moderate to fresh from the Westward over Ireland, England, and the north of France, light or moderate from the South-Westward over the North Sea, and light from the Eastward in Iceland. Light and rather variable breezes or calms prevailing in most other parts of our area. A complete cyclonic circulation of light to moderate winds developing later around the North Sea, and Westerly current increasing to a strong breeze on the shores of the Bay of Biscay.

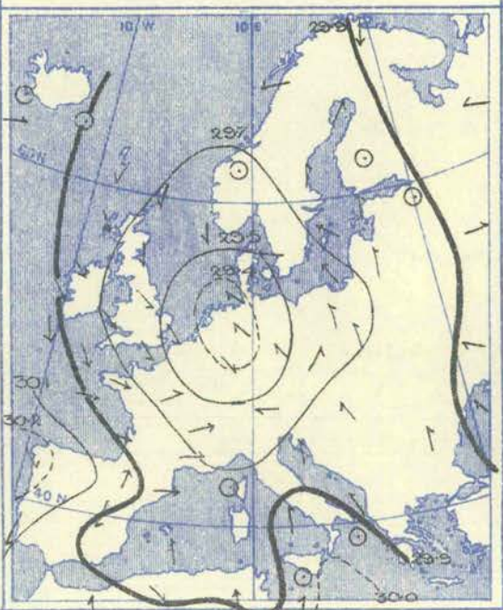
Barometer in morning above 30·2 ins. beyond the west of Spain and Portugal, and relatively high in a band extending thence to the Black Sea. Below 29·5 ins. in a depression off the north of Scotland. Latter system moving south-eastwards to the North Sea during day, and a secondary disturbance appearing over the English Channel. A recovery of pressure setting in on our extreme western coasts and in Iceland.

Wednesday, 7th July, 1909.

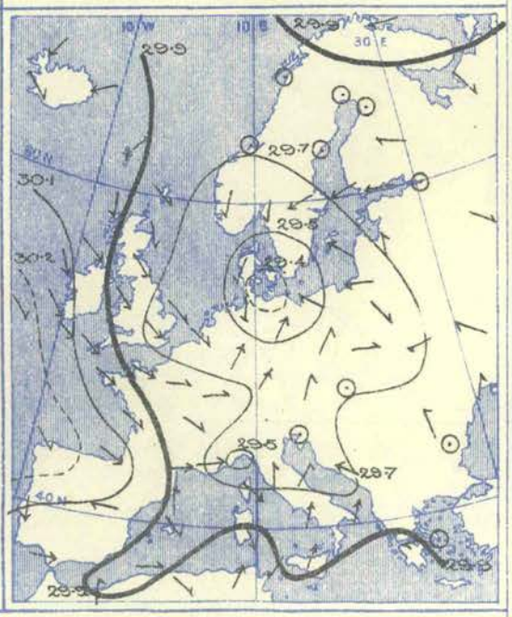
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast and rainy over the North Sea and the surrounding countries, as well as in central Europe and at Bilbao. Fair to fine and bright at nearly all stations in the south, east, and north of our area. Rain later over these Islands, with thunderstorms in the south and south-east, and rain falling over almost all of central Europe and the south of Norway. Amount heavy in several localities, and more than 1·6 in. at Neu-Fahrwasser.

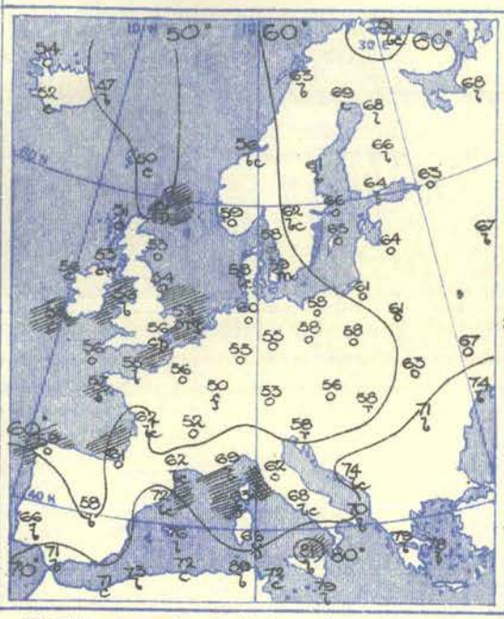
Temperature fallen in most regions, risen in Norway. Readings in morning below 60° over the United Kingdom and the greater part of France and Germany; above 65° in the far north of Finland and Russia, and above 70° at various stations in the Mediterranean region; highest values, 77° at Barcelona, and 81° at La Calle and Algiers. Maxima during day nearly 100° on the coast of Algeria, 90° at Madrid, 86° at Brindisi and in Greece, and between 75° and 80° in most southern localities. Thermometer rising to some degrees above 70° in Russia, and to 82° at Memel, but remaining below 65° in most parts of this country, the Netherlands, and the north of France.

Wind in morning showing a very extensive cyclonic circulation occupying nearly the whole of Europe. The Northerly to North-Westerly current blowing freshly or strongly over these Islands and France, and that from South-East strong at Wisby. Not much change as a whole later in day, but a separate cyclonic movement setting in around the Gulf of Genoa, and wind becoming high from West at Nice.

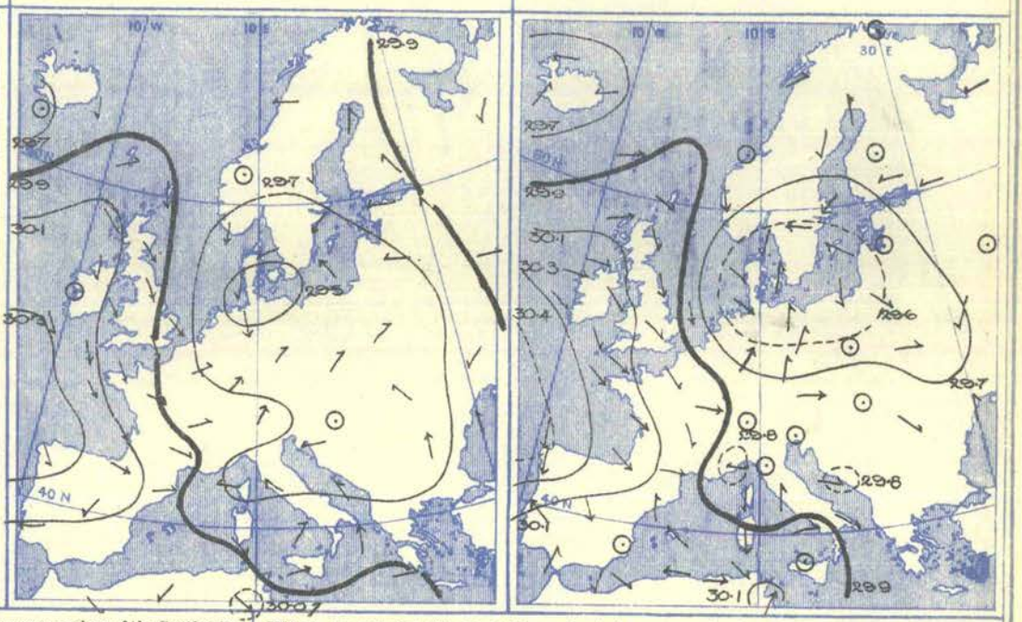
Barometer in morning above 30·2 ins. in the north-west of Spain and over the adjacent portion of the Atlantic; below 29·4 ins. in a depression centred over the north of Holland, and relatively low over the Mediterranean. Northern disturbance travelling east north-eastwards during day, and a well-defined depression forming in the neighbourhood of Nice. Pressure increasing decidedly throughout these Islands, but changing little in Iceland.

Thursday, 8th July, 1909.

Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m. / 6 p.m.



Weather in morning rainy in the south-east of England and the nearer regions of the Continent, as well as in the north of Denmark, some parts of Austria-Hungary, at Toulouse, and Bilbao. Fair to fine and bright over the major portion of this country, the Mediterranean region, Russia, and Scandinavia. A little rain later in the extreme north and west of these Islands, and considerable quantities in the east of France, the Netherlands, and various parts of central Europe and Scandinavia. Thunderstorms occurring at Lyons and Besançon.

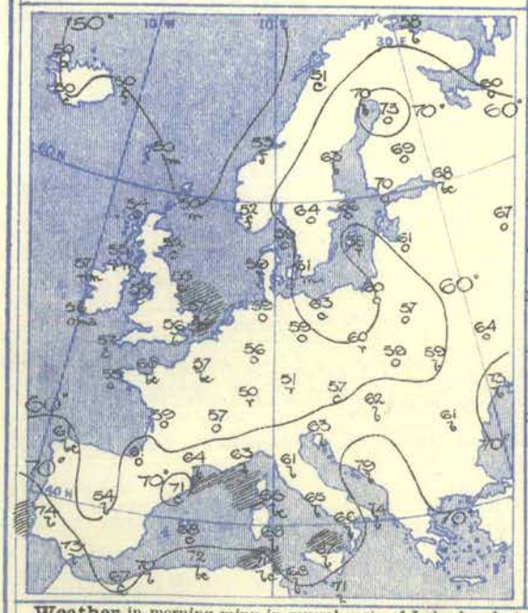
Temperature changed rather irregularly. Morning readings below 60° over the United Kingdom, the central countries, the Netherlands, and nearly the whole of France; above 65° throughout Russia, Finland, and in the north of Sweden, and between 70° and 80° in the far south of our area. Maxima during day about 70° at a few stations in England and Scotland, but lower in most parts of France, Germany, and Austria. Thermometer rising to 77° at Haparanda, 82° at St. Petersburg, and to between 70° and 80° or higher in the south of our area; 91° at Brindisi, and 97° at Bucharest.

Wind in morning still circulating cyclonically over nearly the whole of our area; Northerly current fresh or strong over the North Sea and in several parts of England and Wales. A fresh to strong breeze from the Westward prevailing on some shores of the Mediterranean. Continuing strong over the North Sea throughout the day; decreasing somewhat over most of this country, and backing to the Westward on all our western coasts.

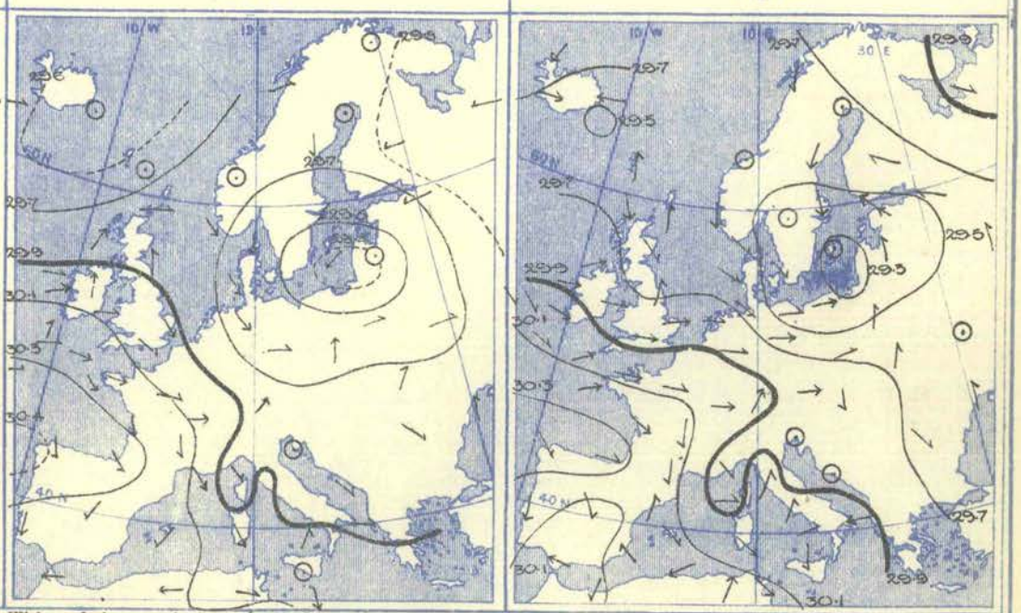
Barometer in morning falling again decidedly in Iceland. Readings ranging from above 30·3 ins. in an anticyclone lying on the Atlantic to the south-west of this country, to below 29·5 ins. in a depression having its minimum near Copenhagen, and to below 29·7 ins. over the west of Iceland. Danish depression moving slowly eastwards during day, but another system appearing over Iceland and extending rather quickly eastward and southward.

Friday, 9th July, 1909.

Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m. / 6 p.m.



Weather in morning rainy in several parts of Ireland and at Wick, and also over the Low Countries and at some German and Danish stations. Fair to fine and bright over the greater portion of England, the north of France, nearly the whole of southern Europe, and in various parts of Scandinavia. Rain later over the whole of the United Kingdom, most of France, many parts of central Europe, and Russia; more than 0·5 in. at several of our own stations, and more than an inch at Memel.

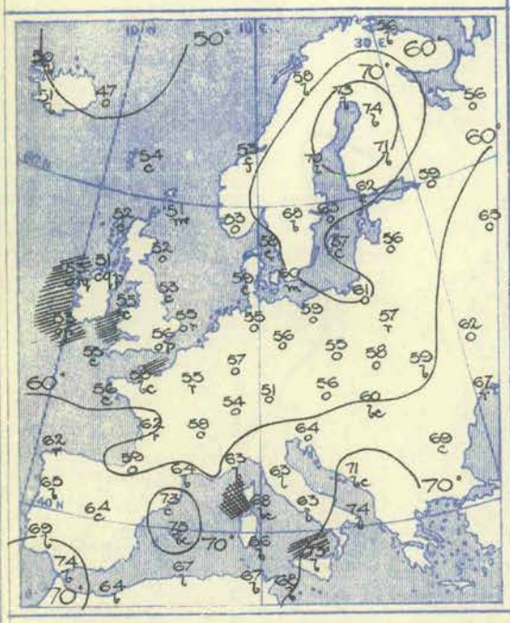
Temperature showing no great or general change; fallen in Norway. Morning readings above 55° at most of our own stations and throughout France and the central countries, above 65° in Russia and Finland, and 70° in the far north of Sweden; about 70° over a considerable portion of the Mediterranean region, and as high as 79° at Pesaro. Maxima during day about 70° at some English stations, but below 65° over a large part of these Islands, as well as in various parts of France, the Low Countries, and Germany. Thermometer rising to above 80° in Finland and the north of Sweden, and also at some stations in the Mediterranean region, and to 90° at Brindisi and Bucharest.

Wind in morning still showing a cyclonic circulation over all the central and northern countries of the Continent, the Northerly current being high on the Dutch coast, and that from East blowing a gale at Helsingfors. A moderate breeze from West to South-West prevailing over all the western and northern parts of the United Kingdom, and light to fresh breezes from between North-West and West over the Mediterranean. Wind backing to the Westward during day over the south-east of England, and veering to the Northward in Scotland. Blowing strongly from West on some parts of our southern and south-western coasts.

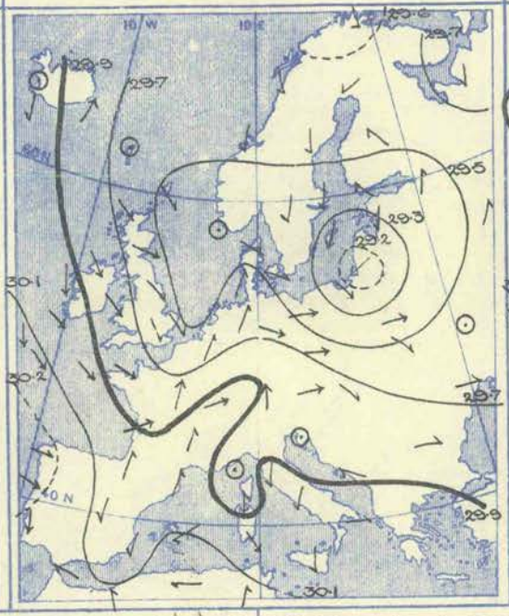
Barometer in morning above 30·3 ins. over the Bay of Biscay; below 29·4 ins. in a large depression centred near Memel, and below 29·6 ins. in another disturbance over Iceland and its neighbourhood. No change in the general distribution occurring during day, but some secondary disturbances forming over these Islands and their neighbourhood. An increase of pressure setting in in Iceland.

Saturday, 10th July, 1909.

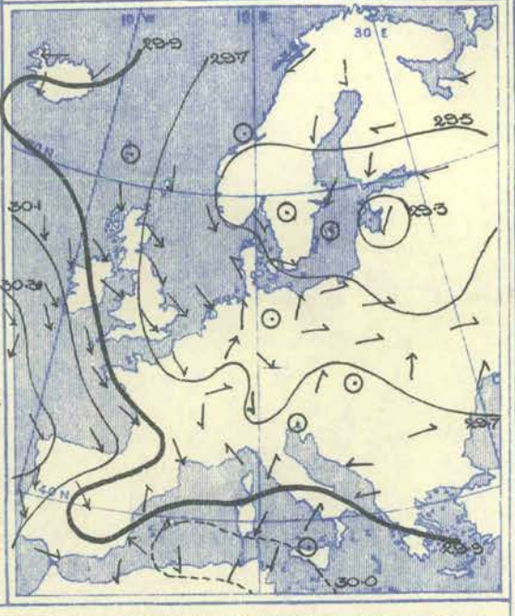
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast, with passing showers or steady rain in several places over these Islands and their neighbourhood, and overcast, with rain here and there, in central Europe, and also on the north coast of Spain and in the south of Russia. Fair to bright over most of the Mediterranean region and in Scandinavia and Finland. Rain falling later in nearly all parts of these Islands, as well as over the major portion of the Continent; amounts large in various localities on the Continent, an inch at Paris. Thunder heard at Dungeness, and a thunderstorm occurring at Karlstad.

Temperature changed irregularly. Morning readings below 55° over the major portion of the United Kingdom, below 60° over central Europe and nearly the whole of France. Above 70° at various stations on the shores of the Mediterranean, and also in northern Sweden and Finland. Maxima during day a few degrees above or below 60° in the United Kingdom, below 70° over a wide area on the Continent, but above 80° in the northern half of Sweden and at some places in the far south of our area; thermometer rising to 91° at Madrid.

Wind in morning cyclonic very generally; North-Westerly current fresh to strong in many parts of these Islands and France, and a fresh to strong North-Westerly breeze prevailing in Germany also. No general change later; decreasing in force in Germany.

Barometer in morning above 30·3 ins. off the coast of the Peninsula; below 29·2 ins. in a large depression having its minimum near Memel, and below 29·5 in an irregularly shaped secondary over the North Sea region. A shallow disturbance lying over the Gulf of Genoa and Corsica. Pressure increasing during day over the United Kingdom and the Icelandic region. Main depression moving north-eastward. Little modification taking place in the general distribution of pressure.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second). *See* also p. 220.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1909.												
1	July 5th, 7.44 p.m. to 9.3 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 93% 213°, 4·5	284° 94% 215°, 6·5	283° 94% 216°, 7·8	280° 96% 226°, 14	278° 98% 236°, 15			270° 99% 232°, 16	1,910	Overcast and dull. Gentle breeze. Clouds, Ni. and Cu.-Ni. 10.
2	July 6th, 9.48 a.m. to 11.22 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	289·5° 70% 250°, 7	288° 70% 250°, 12	285° 85% 250°, 14	282° 95% 245°, 15	278·5° 100% 240°, 16			277·5° 100% 240°, 16	1,700	Clouds at various heights above 3,000 m. Wind variable.
3	July 6th, 6.30 p.m. to 9.5 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 88% 315°, 4	283° 90% 315°, 6	282° 99% 315°, 7	277° 100% 317°, 13	274° 98% 324°, 13	271° 99% 324°, 15	269° 100% 325°, 16	267° 100% 330°, 17	3,000	Overcast and dull. Gentle breeze. Clouds, St. 10. Two kites on one wire.
4	July 7th, 4.15 a.m. to 8.15 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 100% 315°, 4	282° 100% 316°, 5·5	281° 100% 318°, 6	276° 100% 327°, 12	273° 100% 334°, 15	268° 100% 338°, 16		268° 100% 340°, 17	2,400	Dull and wet. Gentle breeze. Clouds, 10 Ni. and Cu.-Ni. Two kites on one wire.
5	July 7th, 2.40 p.m. to 3.50 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	290° 80% 290°, 8	288·5° 80% 290°, 14	286° 90% 300°, 17	283° 100% 310°, 18					1,000	Clouds not reached. Wind estimated from pull on wire.
6	July 8th, 9.50 a.m. to 11.26 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	290° 70% 345°, 8	288° 75% 345°, 15	284·5° 85% 345°, 16					282° 90% 345°, 16	750	Cu.-Ni. Thundery. No clouds reached.
7	July 8th, 4.26 a.m. to 6.54 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 93% 338°, 7	288° 92% 339, 9·8	282° 92% 340°, 1·5	278° 89% 345°, 14	274° 87% 351°, 18·2	269° 87% 355°, 22·4		265° 90% 335°, 21	2,400	Fair to fine. Moderate breeze. Clouds, Ni. and Cu. 8–10.
8	July 9th, 4.42 a.m. to 8.7 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 94% 303°, 4	282° 93% 303°, 6	281° 92% 305°, 7	278° 78% 310°, 13	278° 60% 312°, 14	278° 29% 316°, 14		278° 14% 320°, 15	2,300	Overcast and dull. Gentle breeze, Ni. 10. Two kites on one wire. Great fall in humidity with altitude.
9	July 9th, 11.20 a.m. to 12.10 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	289° 80% 330°, 7	288·5° 80% 330°, 12	286° 90% 335°, 4	283° 95% 340°, 15				282·5° 95% 340, 16	1,100	Cumulus. Thunder showers early, fine evening.
10	July 9th, 11.18 p.m. to July 10th, 1.10 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 100% 337°, 6	283° 100% 335°, 7	282° 100% 334°, 7	279° 100% 327°, 11	275° 100% 326°, 11			272° 100% 327°, 12	1,700	Dull and wet. Moderate breeze. Ni. 10. Storm kite. Heavy rain during flight.
11	July 10th, 10.6 a.m. to 11.20 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	287·5° 80% 290°, 6	287° 80% 290°, 9	285° 90% 295°, 14	279° 100% 300°, 14				278° 100% 300°, 14	1,380	Lowest clouds at 2,800 m. Overcast to clear.

63, Victoria Street, London, S.W. *July 14th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 28. TWENTY-EIGHTH WEEK, SUNDAY JULY 11TH TO SATURDAY JULY 17TH, 1909. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather.—The weather was generally unsettled and cloudy, but there were several fair or bright intervals in most parts of the Kingdom, and in some western and south-western localities there was very little rain. Thunderstorms or thunder only occurred in various stations in England on Tuesday, and at Kew on Thursday.

Temperature was below the average generally, but just equalled it in Ireland S. The divergence amounted in nearly all districts to less than 2°, and was less than during the week immediately preceding. The highest of the maxima, which were recorded on irregular dates, ranged from 77° in England, E. and the Midland Counties, and 74° in England, S.E., to 66° in the English Channel. On Sunday the thermometer remained below 55° at many eastern stations, and only touched 52° at Skegness. The lowest of the minima were registered in most places early in the week; in Scotland E. and N. the respective values were 37° and 39°, and elsewhere the readings ranged from 40° in Scotland, W. to 46° in England N.E., and the Midland Counties, and to 51° in the English Channel. The lowest grass readings reported were 31° at Llangammarch Wells, 35° at West Linton, Marchmont and Aspatria, 36° at Hereford and Armagh, and 37° at Glasgow.

Mean Temperature of the Sea.—On the north-east coast of Scotland and also at some stations on the south-west coasts of England and Ireland, the water was warmer than during the corresponding week of last year, but generally it was colder. The actual temperature ranged from 60·7° at Plymouth, and about a degree lower at Margate, Eastbourne and Seafield, to 52°7 at Burnmouth, and 50·7° at Lerwick.

Rainfall was rather more than the average in England N.E., and N.W., and Scotland W., but less elsewhere. Late on Thursday or early on Friday the fall amounted to about an inch at Stonyhurst and Southport. At Kilkenny and Scilly the week was quite rainless.

Bright Sunshine was very deficient generally, but exceeded the average in Scotland E. The percentage of the possible duration ranged from 14 and 19 respectively in Ireland N., and S., 22° in Scotland N., 23 in England S.E., and 24 in the Midland Counties to 34 in the English Channel, and to 35 in Scotland E.

Barometer and Wind.—During the early days of the period the highest pressure lay on the Atlantic beyond our west and south-west coasts, and the main wind current over these Islands was from North-West. Later on the high pressure receded southwards and then extended eastward to France and towards the centre of the Continent, while the wind over this country backed to the Westward. No depression of much importance passed over the United Kingdom, but some secondaries to large systems travelling eastward from Iceland to Scandinavia maintained the weather in a more or less disturbed condition.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 220.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Deficient	Moderate	Deficient	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient
	Rainfall ...	Moderate	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Moderate	Light	Very light
	Sunshine ...	Moderate	Abundant	Scanty	Scanty	Very scanty	Very scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 6 weeks from June 6th, 1909.	Warmth ...	**0** * 3	**0** * 4	**0** * 5	**0** * 5	**0** * 4	**0** * 6	**0** * 3	**0** * 4	**0** * 5	**0** * 3	**0** * 3	**0** * 5
	Rainfall ...	**1** * 3	**1** * 3	**2** * 3	**2** * 1	**2** * 1	**2** * 1	**1** * 2	**2** * 2	**2** * 3	**2** * 1	**1** * 4	**2** * 3
	Sunshine ...	**0** * 2	**2** * 1	**0** * 5	**0** * 5	**0** * 5	**0** * 4	**1** * 2	**1** * 3	**2** * 3	**0** * 3	**0** * 3	**2** * 2

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	**4** * 4	**4** * 6	**4** * 4	**1** * 3	**5** * 4	**2** * 4	**3** * 3	**2** * 4	**3** * 3	**2** * 3	**3** * 3	**3** * 3
	Rainfall ...	**2** * 7	**3** * 6	**2** * 8	**3** * 6	**4** * 7	**3** * 7	**4** * 5	**5** * 5	**3** * 8	**5** * 8	**2** * 6	**2** * 6
	Sunshine ...	**4** * 3	**6** * 4	**5** * 4	**5** * 4	**7** * 4	**6** * 2	**5** * 3	**7** * 3	**7** * 3	**4** * 3	**5** * 4	**5** * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	**10** * 2	**8** * 3	**10** * 1	**7** * 2	**8** * 2	**6** * 2	**10** * 2	**7** * 2	**6** * 2	**10** * 2	**9** * 2	**10** * 2
	Rainfall ...	**5** * 6	**5** * 5	**3** * 6	**2** * 5	**2** * 5	**1** * 7	**5** * 5	**2** * 5	**2** * 5	**3** * 6	**4** * 4	**2** * 6
	Sunshine ...	**3** * 3	**4** * 6	**2** * 4	**4** * 3	**3** * 4	**8** * 1	**1** * 7	**6** * 4	**4** * 3	**2** * 5	**1** * 6	**7** * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	**3** * 2	**3** * 2	**2** * 7	**4** * 6	**2** * 6	**4** * 6	**3** * 2	**4** * 6	**4** * 6	**5** * 1	**4** * 2	**5** * 5
	Rainfall ...	**2** * 6	**3** * 5	**1** * 6	**3** * 7	**3** * 7	**4** * 8	**4** * 3	**2** * 6	**4** * 8	**3** * 4	**3** * 6	**5** * 8
	Sunshine ...	**6** * 2	**5** * 3	**3** * 3	**4** * 6	**4** * 6	**5** * 4	**4** * 2	**8** * 1	**6** * 2	**4** * 5	**2** * 4	**6** * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	**4** * 3	**5**½* 7	**6** * 2	**4** * 1	**6** * 2	**3** * 4	**6** * 1	**6** * 3	**4** * 4	**6** * 2	**4** * 4	**5** * 1
	Rainfall ...	**3** * 5	8 * 2	**7** * 5	**7** * 4	**6** * 4	**6** * 3	**5** * 4	**6** * 5	**5** * 4	**5** * 4	**6** * 4	**5** * 4
	Sunshine ...	**2** * 2	**3** * 4	**4** * 5	**5** * 5	**6** * 4	**6** * 4	**5** * 4	**7** * 4	**6** * 4	**5** * 5	**6** * 3	**5** * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-EIGHTH WEEK—July 11th to July 17th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	68	39	59·7	49·2	54·1	− 0·6	85	− 4	0	0	5	+ 1	0·58	−0·22	26	− 3	22	− 3
Eastern																		
1. SCOTLAND, EAST	72	37	64·8	49·1	56·4	− 0·1	101	− 1	0	0	3	− 1	0·35	−0·36	42	+ 5	35	+ 4
2. ENGLAND, N.E.	73	46	65·7	51·5	58·1	− 0·7	113	− 5	0	0	3	− 1	0·56	+0·08	34	− 11	29	−10
3. ENGLAND, EAST	77	45	67·0	52·1	59·0	− 1·7	119	− 12	0	0	4	+ 1	0·50	−0·02	35	− 15	30	−13
4. MIDLAND COUNTIES	77	46	66·9	52·4	59·1	− 1·0	120	− 7	0	0	3	0	0·45	−0·05	27	− 17	24	−15
5. ENGLAND, S.E.	74	44	66·3	53·4	59·4	− 2·1	122	− 14	0	0	4	+ 1	0·46	−0·01	26	− 25	23	−23
Western																		
6. SCOTLAND, WEST	68	40	62·5	50·1	55·9	− 1·3	97	− 9	0	0	4	0	0·91	+0·06	32	− 8	27	− 7
7. ENGLAND, N.W.	69	43	63·1	53·0	57·7	− 1·2	110	− 8	0	0	4	+ 1	0·69	+0·06	30	− 13	26	−12
8. ENGLAND, S.W.	72	41	64·1	53·0	58·2	− 1·6	113	− 12	0	0	4	0	0·26	−0·38	29	− 17	26	−15
9. IRELAND, NORTH	70	41	62·5	51·5	56·6	− 0·8	102	− 6	0	0	4	− 1	0·50	−0·23	17	− 15	14	−13
10. IRELAND, SOUTH	71	41	65·2	53·4	58·9	0·0	118	− 0	0	0	3	0	0·14	−0·55	21	− 15	19	−13
11. ENGLISH CHANNEL	66	51	63·3	55·1	58·9	− 2·3	118	− 17	0	0	2	− 1	0·03	−0·49	38	− 19	34	−18

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 6 Weeks, June 6th to July 17th, 1909.

0. SCOTLAND, NORTH	71	35	*	*	*	*	431	− 52	0	− 2	25	+ 2	3·28	−0·90	173	− 32	23	− 4
Eastern																		
1. SCOTLAND, EAST	75	31	*	*	*	*	468	− 77	0	− 1	20	0	2·86	−0·52	236	− 9	32	− 1
2. ENGLAND, N.E.	73	33	*	*	*	*	525	− 82	0	0	21	+ 3	3·55	+0·90	183	− 85	26	−12
3. ENGLAND, EAST	77	35	*	*	*	*	574	−112	0	0	23	+ 6	3·49	+0·69	209	− 84	30	−12
4. MIDLAND COUNTIES	77	33	*	*	*	*	555	−122	0	0	22	+ 5	3·60	+0·73	182	− 83	26	−12
5. ENGLAND, S.E.	74	35	*	*	*	*	586	−134	0	0	23	+ 7	3·46	+0·85	213	− 88	31	−13
Western																		
6. SCOTLAND, WEST	74	32	*	*	*	*	512	− 76	0	0	21	0	4·70	+0·40	257	− 2	36	0
7. ENGLAND, N.W.	74	32	*	*	*	*	532	−107	0	0	21	+ 2	3·76	+0·47	228	− 44	35	− 6
8. ENGLAND, SW.	75	30	*	*	*	*	570	−103	0	0	21	+ 2	3·13	−0·13	260	− 29	38	− 4
9. IRELAND, NORTH	75	33	*	*	*	*	525	− 67	0	0	23	− 1	3·60	−0·22	182	− 41	26	− 6
10. IRELAND, SOUTH	76	36	*	*	*	*	602	− 52	0	0	20	0	2·71	−0·92	199	− 48	29	− 7
11. ENGLISH CHANNEL	71	42	*	*	*	*	642	− 72	0	0	14	− 5	1·98	−0·65	341	− 4	51	− 1

THE YEAR.—Aggregates, &c., for the Period of 28 Weeks, January 3rd to July 17th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	860	− 71	535	− 22	128	—	19·71	−5·31	670	− 29	26	− 1
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	946	−130	673	+ 53	107	+ 3	17·12	+2·48	780	− 33	31	− 1
2. ENGLAND, N.E.	81	14	*	*	*	*	1123	− 37	580	+105	95	0	12·90	+1·77	840	− 29	33	− 1
3. ENGLAND, EAST	82	12	*	*	*	*	1213	−134	554	+ 33	98	+ 6	11·62	+0·50	973	+ 45	39	+ 2
4. MIDLAND COUNTIES	82	8	*	*	*	*	1275	−121	642	+109	90	− 1	12·41	−0·17	868	+ 36	35	+ 1
5. ENGLAND, S.E.	82	0	*	*	*	*	1288	−199	482	+101	94	+ 7	13·36	+1·14	1039	+ 98	41	+ 4
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	1099	− 81	445	+ 20	104	− 6	22·22	+0·10	862	+ 30	34	+ 1
7. ENGLAND, N.W.	79	10	*	*	*	*	1169	− 94	466	+ 80	98	− 2	15·69	+0·11	948	+105	38	+ 4
8. ENGLAND, S.W.	81	7	*	*	*	*	1255	−183	390	+ 89	99	0	15·64	−1·70	1006	+ 91	40	+ 3
9 IRELAND, NORTH	75	14	*	*	*	*	1197	− 55	315	− 30	122	+ 3	17·63	−0·15	757	− 26	30	− 1
10. IRELAND, SOUTH	76	15	*	*	*	*	1427	− 46	265	+ 6	114	+ 8	18·20	−0·95	859	− 9	34	0
11. ENGLISH CHANNEL	78	25	*	*	*	*	1604	− 29	151	+ 42	92	−14	14·04	−0·51	1205	+ 97	48	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day°	Day°		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N. a, Islands.	*p Balta Sound* S	*58*	*12th, 16th*	*48*	*14th*	*56·6*	*46·5*	*52·8*	—	*76*	*0*	*4*	*0·30*	—	*38·6*	—	*30*	—	*Balta Sound.*
	a Sumburgh Head ..	57	14th, 15th	47	11, 12, 15th	55·9	47·9	51·6	– 0·1	67	0	6	0·19	– 0·32	45·2	+13·1	37	+11	Deerness.
	a Stornoway ..	63	12th	46	12th	58·7	50·3	54·2	+ 0·5	85	0	5	0·53	– 0·14	16·7	– 19·3	14	– 16	Stornoway.
	a Castlebay, Barra Isd.	*59*	*11th*	*49*	*12th*	*57·0*	*51·3*	*54·0*	*– 2·4*	*84*	*0*	*4*	*0·52*	—	*23·9*	—	*20*	—	*Castlebay.*
b, Mainland.	a Wick	65	14th, 16th	41	12th	61·7	47·4	54·1	0·0	85	0	3	0·37	– 0·20	*	*	*	*	* *
	p Strathpeffer	68	12th	48	11th	62·5	51·6	56·7	+ 1·0	103	0	2	0·40	– 0·22	23·4	– 7·6	19	– 6	Strathpeffer.
	p Glencarron .. 𝔖	60	12th	46	12th	56·8	48·4	52·2	– 1·2	72	0	7	1·32	+ 0·13	*	*	*	*	* *
	p Fort Augustus 𝔖	65	13th, 16th	39	12th	61·5	49·5	55·1	– 0·4	92	0	4	0·40	– 0·23	19·5	– 5·6	16	– 5	Fort Augustus.
	p Fort William 𝔖	66	16th	39	12th	61·1	49·6	55·0	– 1·2	91	0	5	0·87	– 0·20	*	*	*	*	* *
1. SCOTLAND, E.	*p Gordon Castle* 𝔖	70	12th	37	12th	64·1	47·2	55·1	– 1·4	92	0	4	0·53	– 0·17	*33·7*	—	*28*	—	*Gordon Castle.*
	a Nairn	69	12th, 16th	47	12th	63·6	50·7	56·7	+ 0·5	103	0	3	0·43	– 0·13	34·1	—	28	—	Nairn.
	a Aberdeen	70	16th	46	12th	64·6	50·9	57·3	+ 1·2	107	0	3	0·52	– 0·08	43·1	+ 4·9	36	+ 4	Aberdeen.
	a Balmoral .. 𝔖	71	14th, 17th	42	17th	67·9	47·3	56·9	+ 2·9	104	0	2	0·23	– 0·37	36·7	—	31	—	Crathes S.
	p Crieff .. .. 𝔖	72	12th	43	12th	67·6	49·1	57·7	+ 0·2	110	0	3	0·37	– 0·31	54·4	—	46	—	Balruddery
	a Leith	69	16th	48	12th	64·9	52·4	58·2	+ 0·3	113	0	3	0·18	– 0·39	41·0	+ 8·3	35	+ 7	Edinburgh.
	a West Linton .. S	65	12th, 16th	37	12th	61·4	47·0	53·7	– 1·6	82	0	6	0·25	—		—		—	*West Linton.*
	p Marchmont .. 𝔖	68	13th, 16th	43	12th	63·9	47·9	55·3	– 0·9	93	0	2	0·27	– 0·43	43·7	+ 3·7	37	+ 3	Marchmont.
2. ENGLAND, N.E. a, North.	a Alnwick Castle ..	73	16th	46	12th	64·3	50·6	57·0	0·0	105	0	2	0·69	+ 0·09	33·4	—	28	—	Cockle Park.
	a Shields	72	16th	47	12th	65·4	50·0	57·2	0·0	106	0	2	0·39	– 0·14	*30·5*	*– 2·5*	*26*	*– 2*	*Newcastle.*
	p Durham	72	16th	48	11th, 12th	65·1	51·3	57·7	– 0·6	110	0	2	0·59	– 0·04	33·9	– 4·8	29	– 4	Durham.
	p Rounton .. 𝔐	72	16th	49	11th, 12th	65·9	50·8	57·8	+ 0·5	111	0	3	0·51	– 0·05	*	*	*	*	* *
	p Scarborough .. M	72	13, 14, 16, 17	49	11th	67·4	52·6	59·5	+ 1·0	123	0	2	0·46	– 0·06	31·2	—	27	—	Scarborough.
	p York	71	13th	50	11th	66·0	52·4	58·7	– 0·9	117	0	3	0·59	+ 0·04	28·4	– 12·0	25	– 10	York.
b, South.	a Spurn Head	70	13th	50	11th, 12th	62·7	53·1	57·6	– 1·3	109	0	2	0·70	+ 0·33	*	*	*	*	* *
	a Lincoln	73	13th	46	13th	67·0	51·4	58·7	– 1·8	117	0	3	0·60	+ 0·10	40·2	—	35	—	Skegness.
	a Fulbeck	73	13th	48	11th, 13th	67·2	51·4	58·8	– 1·4	118	0	4	0·52	+ 0·02	34·2	—	30	—	Rauceby.
															39·2	—	*34*	—	*Lowestoft.*
3. ENGLAND, E. a, North.	p Cromer	72	14th	48	13th	64·9	51·8	57·9	– 1·6	111	0	4	0·28	—	31·8	—	28	—	Cromer.
	p Hillington .. 𝔐	74	17th	45	11th	66·3	51·2	58·2	– 1·7	112	0	3	0·43	– 0·16	34·2	– 11·3	30	– 10	Hillington.
	a Yarmouth	73	14th, 17th	48	11th	66·3	51·3	58·3	– 1·2	114	0	4	0·40	– 0·13	40·2	—	35	—	Yarmouth.
	a Norwich	74	17th	47	13th	67·2	52·2	59·2	– 0·7	120	0	5	0·47	—	*	*	*	*	* *
	p Geldeston	76	17th	48	11th	67·6	51·6	59·0	– 0·7	119	0	4	0·38	– 0·11	35·7	– 12·5	31	– 11	Geldeston.
	p Cambridge	77	17th	48	13th	68·5	52·5	59·9	– 1·3	125	0	4	0·54	+ 0·03	37·5	– 9·8	33	– 9	Cambridge.
b, South.	*a Felixstowe*	*74*	*17th*	*49*	*11th*	*64·9*	*53·7*	*58·9*	*– 2·0*	*118*	*0*	*4*	*0·39*	—	*41·6*	—	*37*	—	*Felixstowe.*
	a Clacton-on-Sea ..	75	17th	48	11th	67·4	52·6	59·5	– 1·2	123	0	5	0·36	—	36·7	—	33	—	Clacton.
	a Rothamsted ..	73	17th	47	13th	66·6	51·4	58·5	– 1·3	116	0	4	0·99	+ 0·45	33·4	– 14·5	30	– 13	Rothamsted.
	a Shoeburyness ..	*74*	*17th*	*49*	*11th*	*67·9*	*53·7*	*60·3*	*– 2·3*	*128*	*0*	*4*	*0·57*	*+ 0·17*	*30·4*	—	*27*	—	*Southend.*
	p Tottenham	75	17th	50	11th, 13th	68·1	54·5	60·8	– 0·8	132	0	4	0·62	—	26·9	—	24	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	a Harrogate	67	13th	48	11th, 12th	62·8	51·2	56·6	– 0·8	102	0	2	0·52	– 0·02	26·9	—	23	—	Harrogate.
	a Bawtry	71	13th	47	13th	67·0	52·0	59·0	– 0·8	119	0	2	0·38	– 0·12	23·3	– 14·7	20	– 13	Worksop.
	p Buxton .. M	*69*	*13th*	*47*	*12th*	*61·9*	*50·5*	*55·8*	*– 1·0*	*97*	*0*	*3*	*0·68*	*– 0·14*	*35·4*	—	*31*	—	*Buxton.*
	a Nottingham ..	73	13th	48	13th	67·7	52·6	59·6	– 0·8	123	0	3	0·99	+ 0·49	29·7	—	26	—	Nottingham.
	p Birmingham, Edgbsn	72	14th, 17th	50	11th	66·8	52·8	59·3	– 0·1	121	0	3	0·47	– 0·03	31·4	—	28	—	Birmingham.
	a Raunds .. 𝔐	77	17th	47	11th, 13th	69·5	51·3	59·8	– 0·9	125	0	4	0·81	—	*	*	*	*	* *
	a Oxford	73	17th	50	11th, 13th	67·3	53·4	59·9	– 0·9	125	0	4	0·43	– 0·12	28·0	– 18·0	25	– 16	Oxford.
b, West.	a Cheadle .. 𝔐	71	13th	47	12th	65·4	51·6	58·0	+ 0·3	112	0	3	0·56	– 0·05	27·8	—	24	—	Sheffield.
	p Shrewsbury	71	17th	50	12th	67·6	53·6	60·1	+ 0·9	127	0	1	0·20	—	*	*	*	*	* *
	a Hereford .. 𝔐	74	14th	46	11th	69·8	52·2	60·4	+ 0·3	129	0	2	0·29	– 0·21	*	*	*	*	* *
	a Cirencester	71	17th	48	11th, 13th	65·6	51·5	58·1	– 1·0	113	0	2	0·22	– 0·35	26·8	– 18·2	24	– 16	Cirencester.
	a Bath	70	17th	49	11th, 12th	66·3	54·0	59·7	– 0·7	124	0	3	0·12	– 0·45	24·6	—	22	—	Bath.
															29·7	—	*27*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	74	17th	50	11th	67·8	55·1	61·0	– 0·3	133	0	4	0·47	– 0·05	25·8	– 20·8	23	– 18	Kew.
	a Marlborough ..	70	17th	44	11th	67·4	51·3	58·8	– 0·5	118	0	4	0·28	– 0·29	24·4	– 18·3	22	– 16	Marlborough.
	a Margate	72	13, 14, 17th	51	13th	67·4	54·1	60·3	– 0·9	128	0	3	0·46	+ 0·02	23·5	– 21·5	21	– 19	Margate.
	a Wisley, Surrey ..	73	17th	47	11th	68·2	53·5	60·3	– 1·8	128	0	4	0·39	—	24·3	—	22	—	Wisley.
	a Swarraton .. 𝔐	70	13th, 14th	47	11th, 13th	66·9	52·2	59·0	– 0·4	119	0	5	0·32	– 0·21	32·3	—	29	—	Worthing.
	a Tunbridge Wells 𝔐	73	17th	48	11th	67·4	51·8	59·1	– 1·3	120	0	4	0·48	– 0·02	24·5	– 23·1	22	– 21	Tunbridge Wells.
	a Dungeness	64	15th	48	11th	62·0	53·7	57·6	– 2·9	109	0	4	0·68	+ 0·30	26·2	—	23	—	Littlestone.
	p Hastings	67	17th	49	11th	62·9	53·9	58·1	– 2·3	113	0	5	0·58	+ 0·10	*23·7*	*– 30·6*	*21*	*– 27*	*Hastings.*
	p Southampton ..	71	17th	49	11th	67·9	53·9	60·4	– 1·8	129	0	5	0·77	+ 0·25	22·6	– 27·7	20	– 25	Southampton.
	a Ventnor	66	15th, 17th	50	11th	64·7	54·6	59·3	– 2·1	121	0	4	0·14	– 0·34	25·2	– 23·0	23	– 21	Ventnor.
															27·1	– 26·9	24	– 24	Eastbourne.
LONDON	*a Westminster* ..	*74*	*17th*	*50*	*11th*	*67·9*	*53·6*	*60·3*	*– 1·5*	*128*	*0*	*5*	*0·62*	*+ 0·12*	*19·9*	*– 20·9*	*18*	*– 19*	*Westminster.*
	a Greenwich	*77*	*17th*	*50*	*11th, 13th*	*69·3*	*53·4*	*60·8*	*– 1·9*	*132*	*0*	*5*	*0·70*	*+ 0·18*	*25·2*	*– 26·8*	*22*	*– 24*	*Greenwich.*
6. a, SCOTLAND. W. ..	p Laudale	65	11th	43	12th	61·7	50·3	55·6	– 1·1	95	0	6	1·26	+ 0·21	*	*	*	*	* *
	a Poltalloch .. 𝔖	62	14th	—	—	60·4	—	—	—	—	–	5	1·56	+ 0·69	*	*	*	*	* *
	p Glasgow	64	11th	45	12th	61·8	50·8	55·9	– 1·3	97	0	4	0·37	– 0·32	20·6	– 13·4	17	– 11	Glasgow.
	p Rothesay .. 𝔖	64	12th, 16th	45	12th	62·4	50·0	55·8	– 1·6	97	0	5	1·33	+ 0·46	*	*	*	*	* *
	a Kilmarnock	64	12th, 16th	40	12th	62·2	48·3	54·8	– 2·7	90	0	5	0·78	—	*24·9*	—	*21*	—	*Kilmarnock.*
	a Colmonell .. 𝔖	65	16th	41	12th	62·4	50·4	56·0	– 1·1	98	0	5	1·02	+ 0·33	*	*	*	*	* *
	p Dumfries .. 𝔖	68	17th	44	12th	63·6	50·4	56·5	– 2·0	102	0	2	0·29	– 0·41	*33·7*	—	*29*	—	*Dumfries*
	p Cally, Gatehouse 𝔖	68	12th, 13th	43	12th	64·1	49·3	56·2	– 1·2	99	0	4	0·62	– 0·18	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	66	13th	48	12th	61·8	51·2	56·1	– 0·6	99	0	4	0·95	+ 0·28	43·0	– 3·5	37	– 3	Douglas.
															30·5	—	27	—	Hoylake.
7. a, ENGLAND, N.W...	p Aspatria	65	12, 13, 16th	43	12th	63·0	50·6	56·4	– 0·2	101	0	5	0·66	– 0·12	29·2	—	25	—	Aspatria.
	p Newton Rigg ..	67	12th	43	12th	63·1	49·5	55·8	– 0·7	97	0	3	0·34	– 0·30	36·9	– 5·0	32	– 4	Newton Rigg.
	p Stonyhurst	64	13th	49	12th	61·6	52·5	56·7	– 1·7	103	0	6	1·35	+ 0·52	27·4	– 14·6	24	– 13	Stonyhurst.
	p Blackpool .. M	64	13th, 14th	52	11th	62·5	54·5	58·2	– 0·5	113	0	3	1·08	+ 0·48	34·1	– 9·3	29	– 8	Blackpool.
	p M'nch'ster, Prestwich	66	12th, 13th	47	12th	63·2	52·4	57·4	– 1·0	108	0	6	0·88	+ 0·18	*23·3*	*– 14·2*	*20*	*– 12*	*Prestwich.*
	a Liverpool (Bidston)	66	13th	51	12th	62·6	54·0	58·0	– 1·9	112	0	3	0·59	+ 0·01	*33·3*	—	*29*	—	*Liverpool.*
	a Hawarden Bridge ..	69	13th	49	12th	64·6	54·7	59·3	– 0·3	121	0	2	0·31	– 0·16	*33·9*	*– 11·7*	*29*	*– 10*	*Southport.*
															29·9	—	*26*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	69	17th	51	12th	63·7	54·1	58·6	– 0·7	116	0	5	0·93	+ 0·43	25·9	– 17·2	23	– 15	Llandudno.
	a Holyhead	64	15th, 17th	51	12th, 13th	62·1	52·9	57·2	– 0·5	106	0	3	0·47	– 0·08	?27·1	—	24	—	Aberdovey.
	p Bettws-y-Coed ..	69	16th, 17th	49	12th	64·9	54·7	59·4	+ 0·5	122	0	3	0·29	—	26·9	—	23	—	Bettws-y-Coed.
															24·4	—	22	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	69	17th	41	12th	64·2	50·4	56·8	– 0·9	104	0	3	0·90	—	28·2	—	25	—	Llangammarch Wells.
	a Pembroke	60	11, 15, 17th	48	11th, 12th	59·1	52·1	55·4	– 2·3	94	0	3	0·05	– 0·49	29·7	– 18·7	26	– 17	Pembroke.
	a Cardiff	68	12th	50	11th, 12th	63·4	53·2	57·9	– 2·6	111	0	5	0·21	– 0·47	*25·5*	—	*23*	—	*Cardiff.*
															30·4	*– 18·9*	*27*	*– 17*	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	68	11th, 13th	50	11th	66·1	54·7	60·2	– 1·0	127	0	4	? 0·43	– 0·19	*25·8*	—	*23*	—	*Clifton.*
	a Shaftesbury .. 𝔐	69	14th	45	11th	64·9	50·7	57·3	– 2·0	107	0	5	0·36	– 0·21	*	*	*	*	* *
	a Arlington	66	13th	49	12th, 13th	61·9	52·3	56·8	– 0·7	104	0	7	0·39	– 0·47	30·4	– 17·9	27	– 16	Newquay.
	a Cullompton .. 𝔐	72	13th	47	12th	68·2	53·2	60·2	+ 0·4	127	0	4	0·12	– 0·48	21·6	– 21·7	19	– 19	Cullompton.
	a Portland Bill ..	63	12th	53	11th, 12th	61·1	55·0	57·8	– 1·7	111	0	3	0·08	—	*44·8*	—	*40*	—	*Weymouth.*
	p Plymouth	70	15th	49	12th	66·6	53·9	59·8	– 0·7	125	0	1	0·01	– 0·60	24·3	– 23·3	22	– 21	Plymouth.
	p Falmouth	69	13th, 16th	51	12th	65·0	54·8	59·5	– 0·1	123	0	1	0·02	– 0·60	45·9	– 5·5	41	– 5	Falmouth.
															41·8	*– 9·7*	*37*	*– 9*	*Torquay.*
9. IRELAND, N. a, West.	a Malin Head	61	12th	50	11th	58·9	52·3	55·4	– 0·5	94	0	5	0·83	+ 0·22	*	*	*	*	* *
	a Blacksod Point ..	62	17th	48	17th	60·4	50·4	55·1	– 1·8	92	0	5	0·54	– 0·12	*	*	*	*	* *
	p Markree Castle ..	68	17th	45	12th	63·4	51·2	56·9	+ 0·5	104	0	5	0·53	– 0·21	11·0	– 19·8	10	– 17	Markree Castle.
	a Birr Castle	67	12th	41	12th	64·4	51·4	57·5	– 0·4	109	0	3	0·04	– 0·59	*15·2*	*– 17·2*	*13*	*– 15*	*Birr Castle.*
b, East.	p Armagh	69	17th	44	12th	64·8	51·9	57·9	+ 0·8	111	0	3	0·49	– 0·17	22·2	– 12·3	19	– 11	Armagh.
	a Donaghadee	70	16th	46	12th	62·9	51·6	56·9	– 0·1	104	0	5	0·57	– 0·65	*	*	*	*	* *
10. IRELAND, S. a, East.	p Dublin, City	68	13th	47	12th	65·9	54·5	59·8	– 0·4	125	0	4	0·27	– 0·27	24·1	– 16·3	21	– 14	Phœnix Park.
	a Kilkenny	69	13th	48	12th	66·3	54·4	59·9	+ 0·9	125	0	0	0·00	– 0·60	*	*	*	*	* *
	a Waterford	71	13th	48	12th	67·7	53·3	60·0	+ 0·7	126	0	3	0·28	– 0·45	*	*	*	*	* *
b, West.	a Birr Castle	67	12th	41	12th	64·4	51·4	57·5	– 0·4	109	0	3	0·04	– 0·59	15·2	– 17·2	13	– 15	Birr Castle.
	a Foynes	66	12th	49	12th	62·7	54·0	58·1	– 0·4	113	0	5	0·34	– 0·30	*	*	*	*	* *
	a Cahir .. .. 𝔐	71	12th	42	12th	66·3	52·5	58·9	0·0	118	0	2	0·09	—	*	*	*	*	* *
	a Killarney	71	12th	47	12th	66·7	53·4	59·6	+ 1·5	123	0	4	0·09	– 0·64	*	*	*	*	* *
	a Valencia	65	17th	50	11th	61·9	54·3	57·8	– 0·1	111	0	5	0·12	– 0·71	12·5	– 23·9	11	– 21	Valencia.
	a Roche's Point ..	68	17th	49	12th	65·0	52·9	58·5	– 0·1	116	0	2	0·06	– 0·58	32·4	—	29	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	63	13, 15, 17th	55	11th, 12th	62·1	56·1	58·9	– 1·3	118	0	0	0·00	– 0·51	35·0	– 16·5	32	– 15	Scilly.
	a Jersey, St. Aubins ..	66	16th	51	13th	64·1	54·6	59·0	– 2·5	119	0	5	0·05	– 0·45	37·8	– 18·3	34	– 17	St. Heliers.
	a Guernsey	65	12th, 14th	52	13th	63·8	54·7	58·9	– 1·8	118	0	2	0·03	– 0·46	40·0	– 17·7	36	– 16	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 29·9 hrs. (– 22·5 hrs.) 26 % (– 21 %); Bournemouth, 30·2 hrs., 27 %; Bognor, 29·3 hrs., 26 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	54·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	52·3
	Crathes	0	40	57·9	53·4
	Balmoral	0	40	—	—
	West Linton	0	35	—	—
	Marchmont	0	35	57·4	—
2.	Cockle Park	0	41	56·6	53·5
	Durham	0	46	—	—
	York	—	—	58·0	54·4
	Hull	0	42	58·6	52·9
	Lincoln	—	—	58·6	54·0
	Rauceby	0	45	60·5	54·9
3.	Norwich	0	44	—	—
	Yarmouth	—	—	61·3	58·3
	Lowestoft	0	44	60·6	56·8
	Cambridge	0	40	60·5	57·0
	Clacton-on-Sea	0	44	58·9	57·1
	Southend	0	50	60·4	—
	Tottenham	0	46	—	56·9
4.	Harrogate	0	45	54·7	53·0
	Huddersfield	0	46	59·0	52·7
	Buxton	0	42	55·7	51·2
	Sheffield	0	45	57·5	52·7
	Nottingham	0	40	58·5	55·4
	Birmingham	0	40	54·6	50·8
	Oxford	0	—	—	—
	Hereford	0	36	—	—
	Cirencester	0	41	—	—
5.	Margate	0	48	58·7	55·6
	Greenwich	0	39	—	—
	Westminster	0	47	—	—
	Kew	0	42	59·9	55·7
	Canterbury	0	43	57·7	55·9
	Tunbridge Wells	0	42	60·9	—
	Wisley	0	43	60·1	56·9
	Worthing	0	44	61·2	57·1
	Portsmouth	0	46	?	?
6.	Glasgow	0	37	—	—
	Rothesay	—	—	—	54·0
	Colmonel	0	39	—	—
	Dumfries	0	41	59·1	56·0
	Douglas	0	43	—	—
7.	Aspatria	0	35	—	—
	Newton Rigg	0	39	58·5	53·9
	Burnley	0	39	56·6	52·6
	Southport	0	40	62·8	58·9
	Manchester City	0	41	59·3	55·9
	Bettws-y-Coed	0	48	55·4	52·1
8.	Llangammarch Wells	0	31	57·9	52·5
	Cardiff	0	46	58·9	55·9
	Clifton	0	45	—	—
	Bath	—	—	61·0	57·1
	Plymouth	0	45	60·7	—
9.	Armagh	0	36	60·2	55·8
	Markree	0	38	—	—
10.	Dublin, Trin. Coll.	0	40	59·5	56·2
11.	Guernsey, Brooklyn	0	43	62·1	59·2

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	51	50	50·7
	Kirkwall	56	54	54·7
	Wick	57	57	57·0
SCOTLAND, E.	Cromarty	55	54	54·5
	Pennan Bay	57	53	55·6
	Aberdeen, Cove Bay	56	54	54·8
ENGLAND, N.E.	Burnmouth, Berwick	54	52	52·7
	Scarborough	58	50	53·5
ENGLAND, E.	Shipwash Lightship	61	56	58·2
	Margate‡	60	59	59·9
ENGLAND, S.E.	Eastbourne‡	60	59	59·6
SCOTLAND, W.	Lamlash	55	53	54·0
	Ballantrae	56	54	54·9
ENGLAND, N.W.	Port Erin	56	54	54·4
	Newquay	59	59	59·0
ENGLAND, S.W.	Plymouth‡	62	59	60·7
	Salcombe	58	56	56·4
IRELAND, N.W.	Sheephaven	58	58	58·0
	Teelin	60	57	58·4
IRELAND, S.W.	Cleggan	59	55	56·9
	Seafield	64	58	59·6
IRELAND, E.				

‡ Only one observation each day.

KITE ASCENTS IN ADDITION TO THOSE SHOWN ON p. 232 WERE CARRIED OUT AT THE HOWARD ESTATE OBSERVATORY, GLOSSOP, AS FOLLOWS:—

July 11th and 12th 11.55 p.m. to 1.47 a.m. Maximum Height 1,800 m.
July 12th { 1.47 a.m. to 3. 4 a.m. " " 1,900 m.
July 12th { 2.45 p.m. to 3.59 p.m. " " 1,200 m.
July 13th 6.37 p.m. to 7.30 p.m. " " 1,500 m.
July 14th 3. 6 p.m. to 5. 0 p.m. " " 1,000 m.
July 15th { 6.25 a.m. to 8. 5 a.m. Maximum Height 1,900 m.
July 15th { 3.16 p.m. to 5.24 p.m. " " 2,000 m.
July 16th 3. 1 p.m. to 3.35 p.m. " " 1,310 m.
July 17th 1. 2 a.m. to 2. 0 a.m. " " 1,300 m.
July 16th Three kites broke away.

In the list of additional kite ascents on p. 220 for "metres" read "feet."

CORRECTIONS AND ADDITIONS FOR JUNE, 1909.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

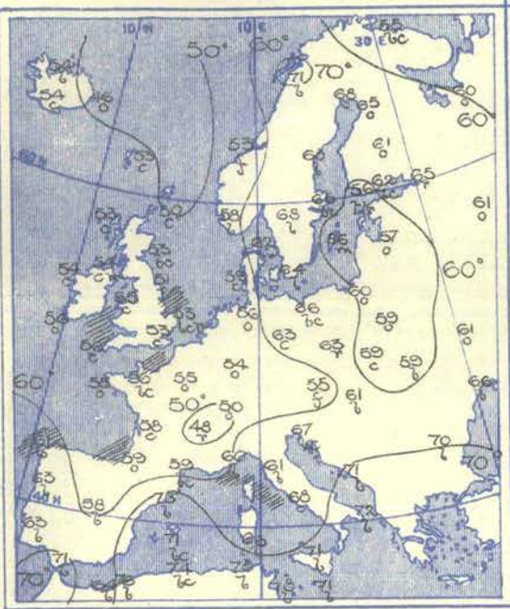
NUMBER AND PAGE OF REPORT.	NUMBERS OF DISTRICTS AND NAMES OF STATIONS.	Temperature. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Daily Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°.	Below 42°.	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 22, p. 178	3. England, E.	—	—	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 22, p. 178	9. Ireland, N.	—	—	—	—	—	46·2	51·9	−1·1	69	—	—	—	—	—	—	—	—
No. 23, p. 186	10. Ireland, S.	67	—	—	—	—	—	—	—	—	—	—	0·06	−0·49	—	—	—	—
No. 26, p. 210	0. Scotland, N.	—	—	—	—	—	—	—	—	—	—	—	0·40	−0·33	—	—	—	—
Station Values.— Additions.																		
No. 23, p. 187	Sheffield	—	—	—	—	—	—	—	—	—	—	—	—	—	25·8	—	22	—
No. 23, p. 187	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	39·2	—	34	—
No. 23, p. 187	Killarney	67	8th	39	7th	62·9	45·5	53·6	−1·1	81	—	1	0·15	−0·52	—	—	—	—
No. 26, p. 211	Strathpeffer	69	2, 3	43	3rd	61·7	45·8	53·2	−1·5	78	0	5	0·70	+0·20	28·3	−7·0	23	−6
Station Values.— Corrections.																		
No. 19, p. 155	Laudale	—	—	—	—	—	—	—	—	—	—	4	0·39	−0·51	—	—	—	—
No. 20, p. 163	Laudale	—	—	—	—	—	—	—	—	—	—	—	1·82	+0·94	—	—	—	—
No. 22, p. 179	York	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 22, p. 179	Hillington (M)	—	—	45	30, 3, 4	60·4	46·0	52·7	−0·9	75	—	—	—	—	—	—	—	—
No. 22, p. 179	Felixstowe	?71	1st	—	—	—	47·4	52·9	−0·5	76	—	—	—	—	—	—	—	—
No. 22, p. 179	Kilmarnock	—	—	—	—	59·4	—	54·1	+0·5	85	—	—	—	—	—	—	—	—
No. 22, p. 179	Stonyhurst	63	30th	—	—	60·1	—	50·9	−1·5	62	—	—	—	—	—	—	—	—
No. 22, p. 179	Markree Castle	—	—	—	—	58·6	—	51·4	−1·3	66	—	—	—	—	—	—	—	—
No. 23, p. 187	Hillington (M)	—	—	—	—	—	43·7	51·0	−0·9	63	—	—	—	—	—	—	—	—
No. 23, p. 187	Laudale	61	6th	40	7th	58.2	44·6	—	—	—	—	—	—	—	—	—	—	—
No. 24, p. 195	York	—	—	—	—	—	46·8	54·9	−1·6	90	—	—	—	—	—	—	—	—
No. 24, p. 195	Hillington (M)	—	—	—	—	61·8	—	53·1	−3·4	78	—	—	—	—	—	—	—	—
No. 25, p. 203	Hillington (M)	—	—	—	—	62·9	—	56·4	−1·3	101	—	—	—	—	—	—	—	—
No. 25, p. 203	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 26, p. 211	Newton Rigg	—	—	—	—	—	—	—	—	—	—	—	—	—	17·6	—	15	—
												—	—	—	45·5	−1·1	38	−1

Station Values.— Additions.		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
No. 23, p 188	Sheffield				
No. 24, p. 196	Bath	1	30	51·9	49·6
No. 25, p. 204	Bath	—	—	58·3	53.9
		—	—	59·1	55·1

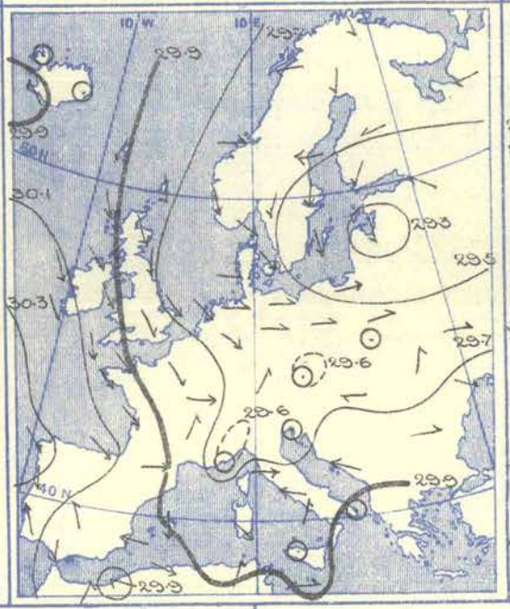
Station Values :— Corrections.		Temperature of the Sea. Highest.	Lowest.	Mean.
No. 22, p. 180	Eastbourne	—	54	56·9
No. 26, p. 212	Eastbourne	60	57	58·4

Sunday, 11th July, 1909.

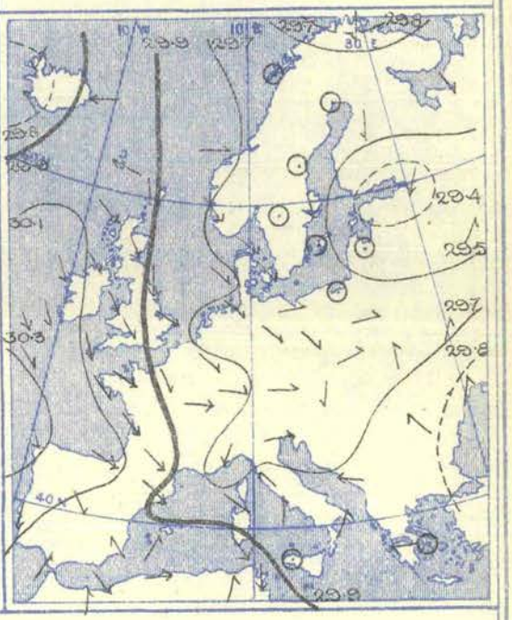
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over the major part of the Mediterranean, but very cloudy or overcast over our area as a whole, with rain in the east of England and in several localities on the Continent. Rain experienced later over most of England, and heavy falls in some parts of Russia, Austria, Switzerland, and France.

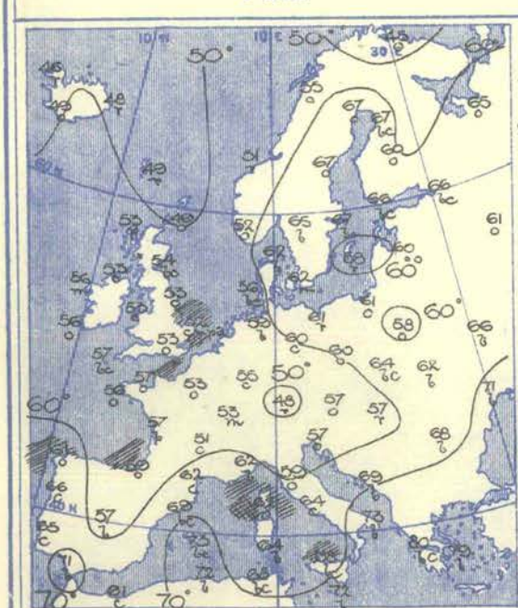
Temperature changed irregularly. Morning readings above 75° at a few places in the far south, and above 65° in the north of Sweden; below 60° over the greater portion of our area, below 55° at many of our own stations, and only 48° at Lyons. Maxima during day very little above 60° in any part of these Islands, and below 70° over a very large portion of the Continent, but as high as 80° and above in the north of Sweden, about 90° at a few places in the far south, and as high as 99° at Tunis.

Wind in morning Northerly to North-Westerly over these Islands, France, and the Bay of Biscay; moderate generally, but fresh to strong in places, and high at Biarritz. An extensive cyclonic circulation of little force prevailing over Russia and the surrounding regions. No important change later; becoming high from West at Leghorn.

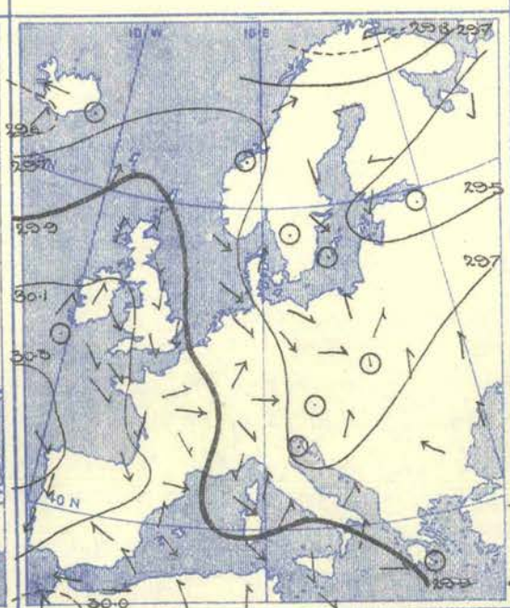
Barometer in morning below 29·3 ins. in a depression centred near Riga, and relatively low over the north of Italy and in the west of Iceland. Above 30·3 ins. over the ocean between Portugal and the Azores. No change in the general distribution of pressure during day. A depression extending over Iceland from the westward, but barometer continuing to rise in this country and Norway.

Monday, 12th July, 1909.

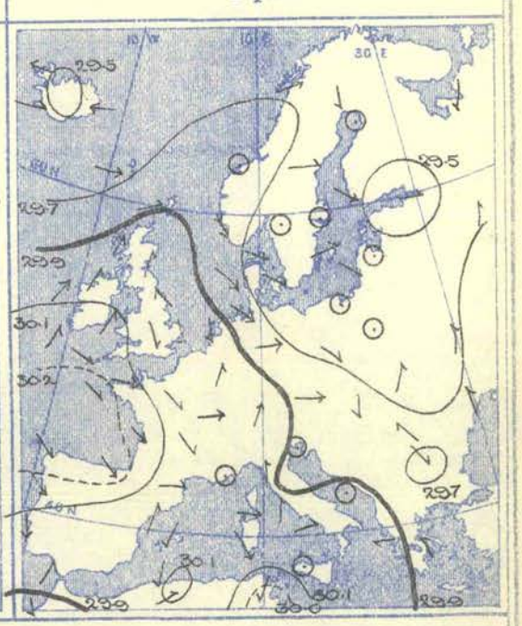
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over the greater portion of our area, but rainy in the extreme south-east of England and in a few places on the Continent. A little rain later in Iceland, and heavy falls in various parts of Germany, Austria, Poland, Russia, and southern Sweden.

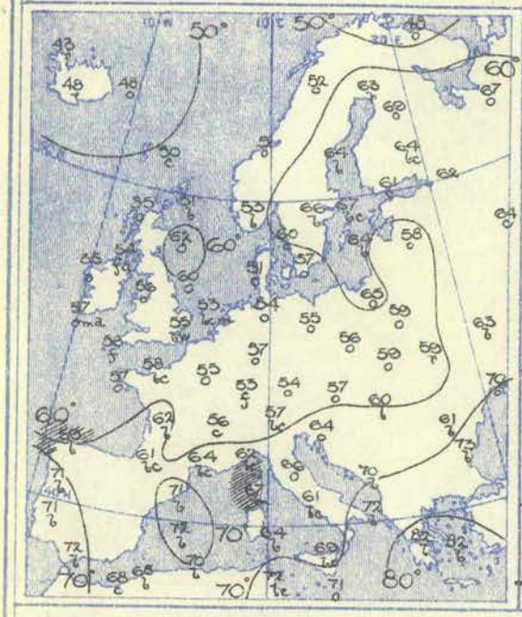
Temperature fallen in Norway, changed little as a whole. Readings in morning below 55° over the greater part of this country and France, and below 60° over a very large portion of central Europe. About 80° in Greece, above 70° in some other southern districts, and not much below 70° in the far north of Sweden. Maxima during day rather above 65° in some parts of England and Scotland, below 70° in most parts of central Europe and France, and as low as 59° at Prague. Above 80° in various southern localities, and about 90° at a few stations. Highest reading, 95° at Bucharest and Biskra.

Wind in morning South-Westerly to South-Easterly and Easterly over the Icelandic region, but between North and North-West over the western half of our area generally. Fresh on some of our own coasts, and high on the coast of Corsica. Light from the Southward in Russia, and from the Eastward in Finland and the north of Sweden. A South-Westerly current spreading over the west and north of these Islands during day, but little change generally; North-Westerly wind increasing to a gale at Skudesnaes.

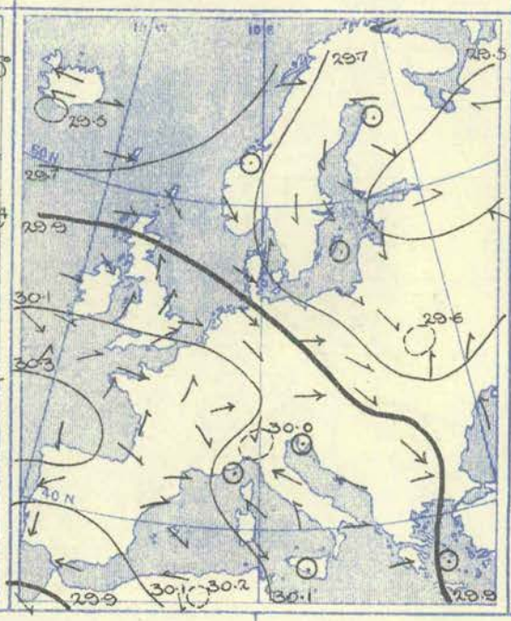
Barometer in morning ranging from above 30·3 ins. in the south-west of our area, to below 29·5 ins. in the north east, and to nearly as low a figure in western Iceland. An ill-defined secondary depression lying over the Gulf of Genoa and its neighbourhood. Icelandic disturbance extending southwards and causing a fall of pressure in the north and west of this country during day, but not much change occurring in the general distribution.

Tuesday, 13th July, 1909.

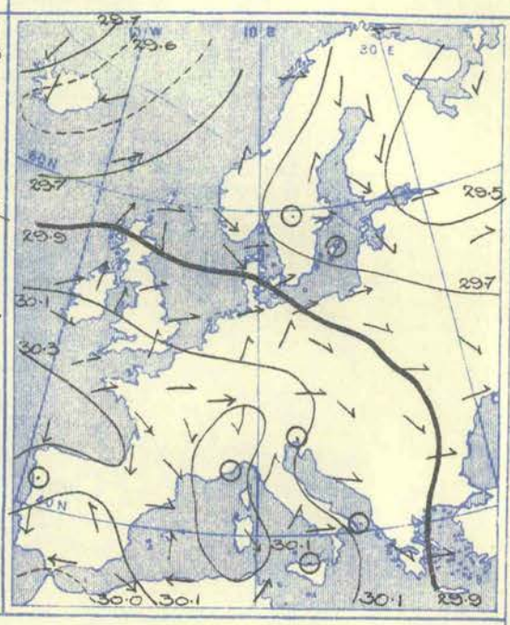
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast over these Islands and most of the northern half of the Continent, with rain in places over a large area; fair or fine and bright at nearly all places in the south. More than an inch of rain falling later at Trieste and Rome, and considerable amounts in some Russian localities. Some rain also falling in various parts of this country, with thunder and lightning in England.

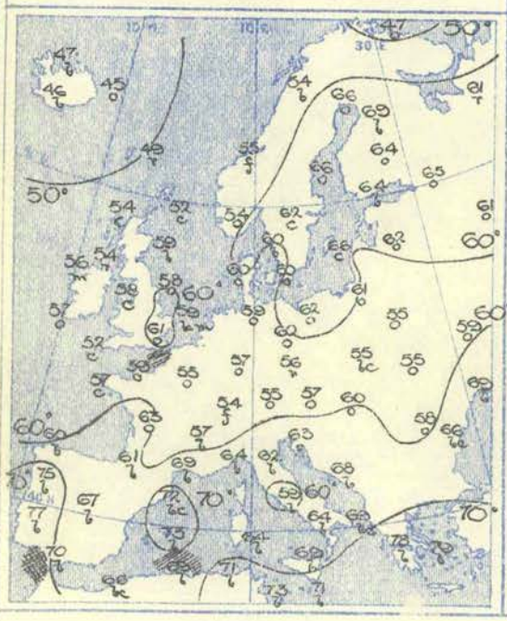
Temperature risen over these Islands and France. Morning readings about 60° in many parts of this country, but rather below it in most parts of France and central Europe; above 65° in the far north of Russia and Finland, about 70° at several Mediterranean stations, and above 80° in Greece. Thermometer rising to about 70° during day at several English stations, and to between 70° and 80° over the south of Europe and in Sweden. Maximum as high as 91° at Madrid, and 95° at Athens. Highest reading only 63° at Vienna and Prague.

Wind in morning light or moderate and mainly Westerly over these Islands and central Europe, and Northerly to North-Westerly over Scandinavia and the Baltic. A strong breeze from East prevailing at San Fernando, but light airs from various points over the south of our area generally. No change of importance during day.

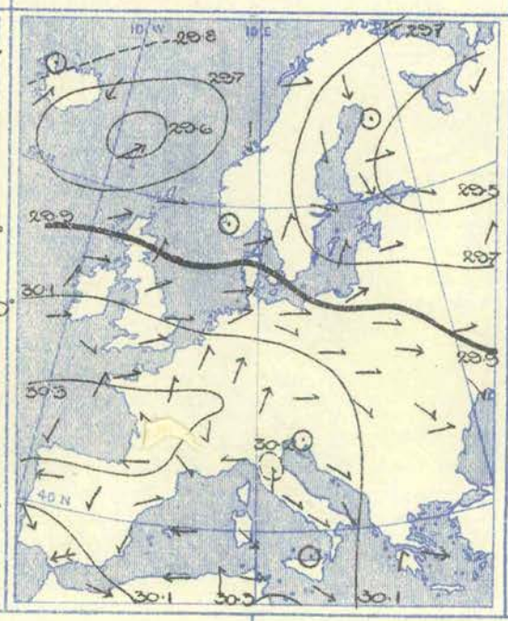
Barometer in morning above 30·3 ins. in an anticyclone over the extreme south-west of our area; below 29·5 ins. in a depression of considerable size over northern Russia and also in a system over Iceland. Relatively low in secondaries over northern Italy and in Poland. Pressure increasing slightly later over the Icelandic region, and depression in that neighbourhood partially dispersing. Little modification occurring in the general distribution over our area as a whole.

Wednesday, 14th July, 1909.

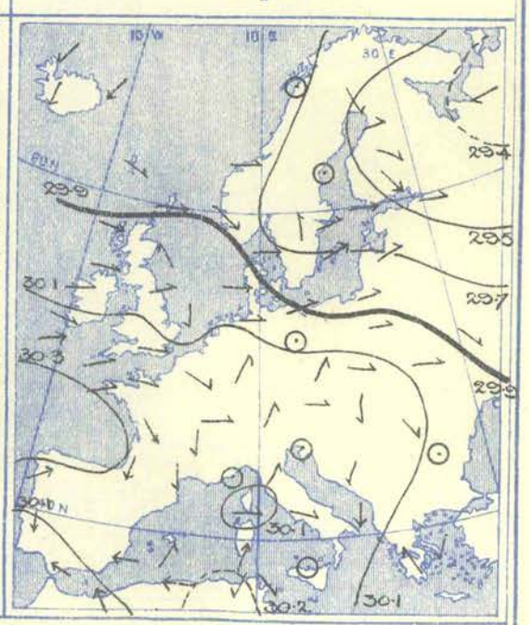
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over the greater portion of our area, but rainy on the north-west coast of Ireland, and overcast, with rain in places, over a wide area in central Europe and Russia. Some rain later in a few parts of these Islands and in scattered places on the Continent. A thunderstorm occurring at Wisby.

Temperature in morning above 65° in Finland and the Mediterranean, and nearly 80° in Greece; below 60° at most stations in these Islands, France, and central Europe, and about 55° on the west coast of Norway and in the Hebrides. Rising to 70° or a little higher in the east of England during day, and also at several stations in the central countries, to above 80° here and there in the far south of our area, and to 91° at Lisbon.

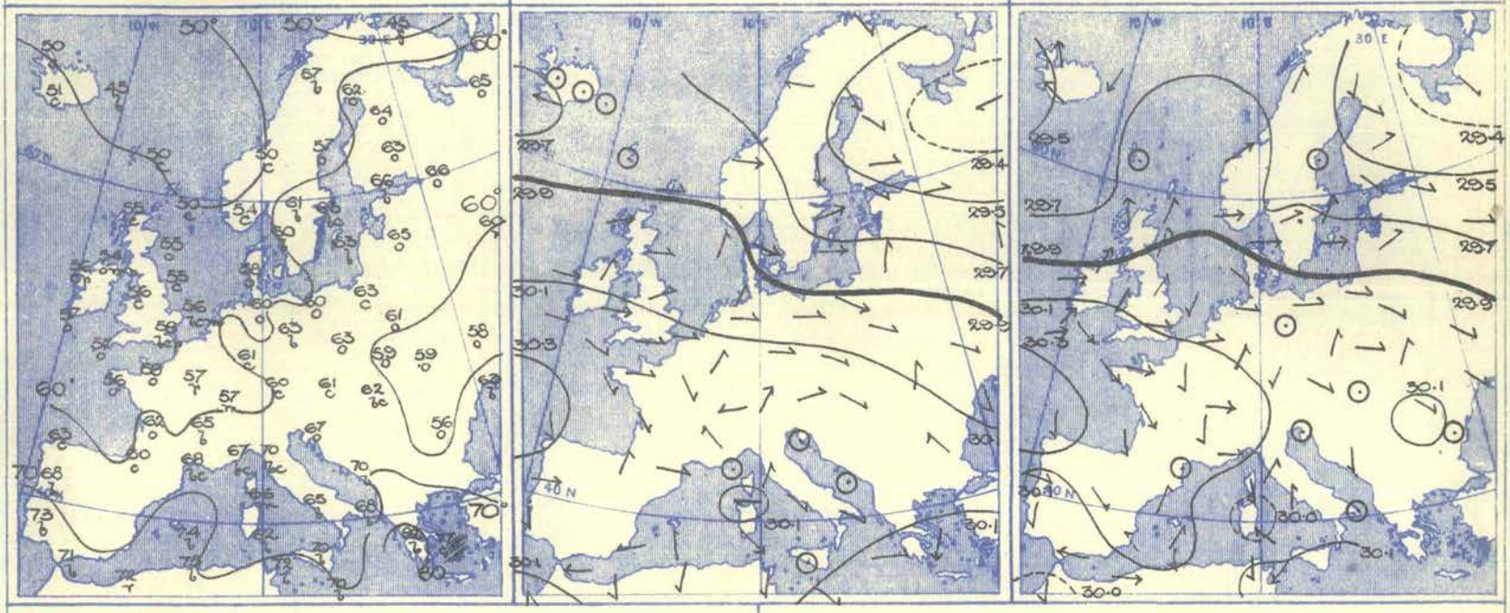
Wind in morning showing two separate cyclonic circulations over the northern part of our area, and an anticyclonic movement in the south-west. Little force generally, but a fresh or strong breeze prevailing locally. No important or general change later in day.

Barometer in morning ranging from above 30·3 ins. in a high pressure system over the Bay of Biscay and France, to below 29·5 ins. in a large depression over northern Russia, and also in another between Iceland and Thorshavn. Latter system nearly dispersing during day, but little other change taking place. Increase of pressure slight over these Islands, very brisk to the northward of Scotland.

Thursday, 15th July, 1909.

Temperature and Weather — 7 a.m.

Barometer and Wind — 7 a.m. | 6 p.m.



Weather in morning varying a good deal; fair to fine and bright over a large portion of our area, both in the north and south, but overcast in some localities, and showery or rainy on the north-west coast of Ireland, in London, and at Paris, as well as at Moscow. Some rain later throughout this country and in the north of France, as well as in some localities in central Europe, and more than an inch at Lugano.

Temperature fallen in Scotland and Scandinavia. Readings in morning about 60° over the major portion of our area, but above 70° at some stations in the far south, and above 80° at Patras. Only about 50° in the north-west of Norway and Shetland. Maxima during day about 70° in the east and south-east of England, and over a wide area in the central countries and in Sweden, above 80° in some extreme southern regions, and as high as 98° at Madrid. Thermometer remaining below 65° over a large portion of these Islands.

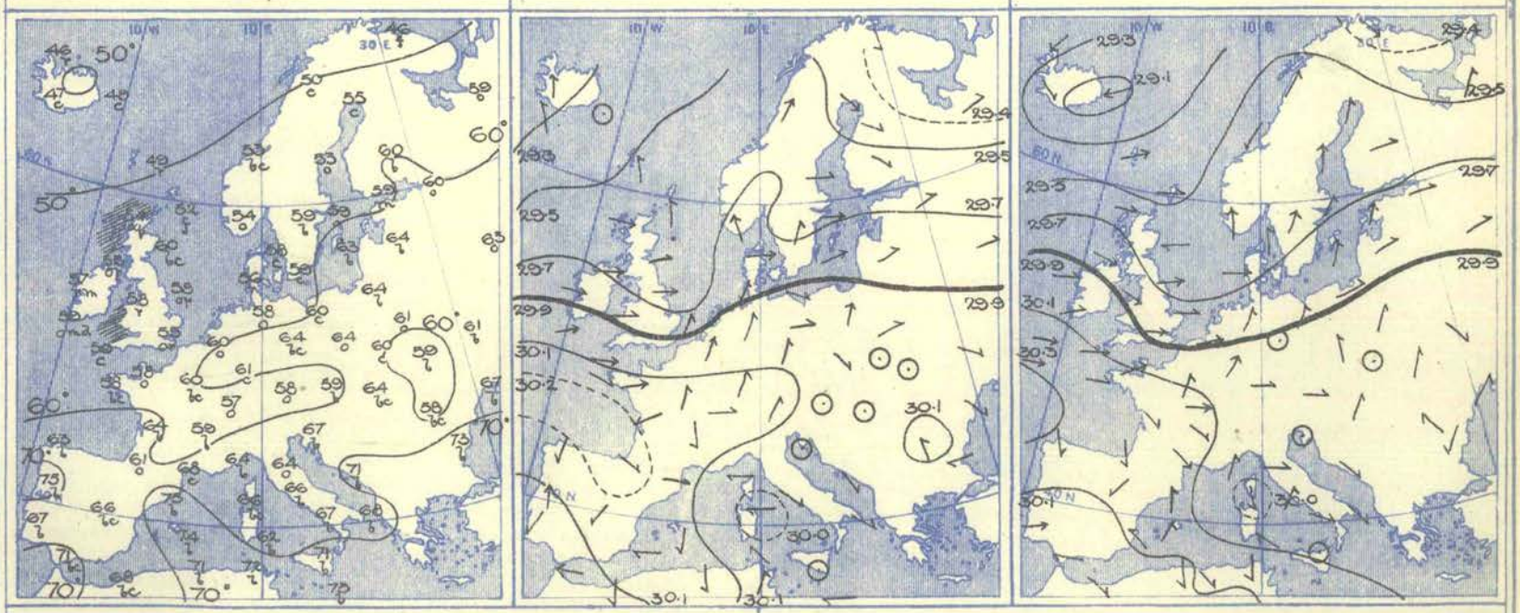
Wind in morning between South-West and West over these Islands and most of northern and central Europe; fresh to strong over the Baltic. Light to moderate and somewhat variable in the south of our area, but strong at Athens. Backing to the Southward by evening on our north-west coasts and increasing considerably in force. Little change elsewhere; decreasing in strength over the Baltic.

Barometer in morning above 30·2 ins. in an anticyclone extending from the Bay of Biscay to central Europe, and relatively high thence to the Black Sea. Below 29·7 ins. in a depression in the west of Iceland, and below 29·4 ins. in a system over northern Russia. Barometer falling very briskly during day in Iceland and over the north-west of these Islands, and gradient growing rather steep. No change of importance elsewhere.

Friday, 16th July, 1909.

Temperature and Weather — 7 a.m.

Barometer and Wind — 7 a.m. | 6 p.m.



Weather in morning mostly overcast over these Islands and the nearer regions of the Continent, with rain in many places. Cloudy to overcast in some other localities, but generally fair to fine and bright. Some rain later in various parts of these Islands, and rather large amounts in the north of France and at a few other stations over the northern half of the Continent.

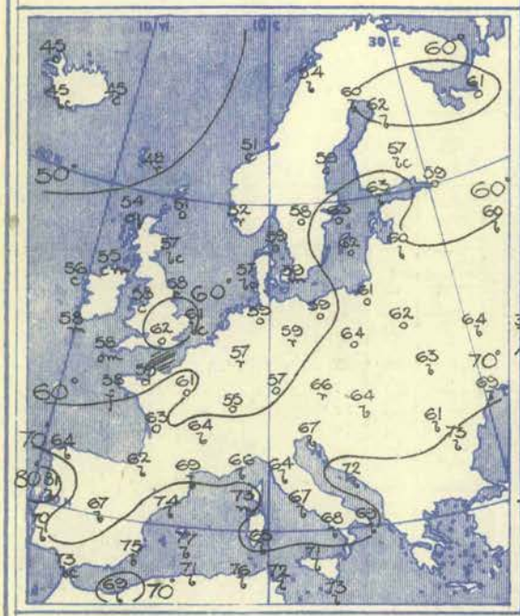
Temperature not changed much generally, but fallen in many parts of northern Europe. Readings in morning about 60° in some parts of these Islands and over the major portion of the Continent, between 60° and 70° over most of the south of Europe, and above 70° in places. Maxima during day about 70° in some parts of England and Ireland, and not much above that value over the greater portion of the Continent, but above 80° in Italy and the Spanish Peninsula, and as high as 93° at Madrid.

Wind in morning Westerly to South-Westerly over these Islands and their neighbourhood, and fresh to strong in force on several parts of the coast. More variable elsewhere, but mainly between West and South-West over the northern half of the Continent. Little change as a whole later in day, but veering towards North-East in Iceland and increasing in force.

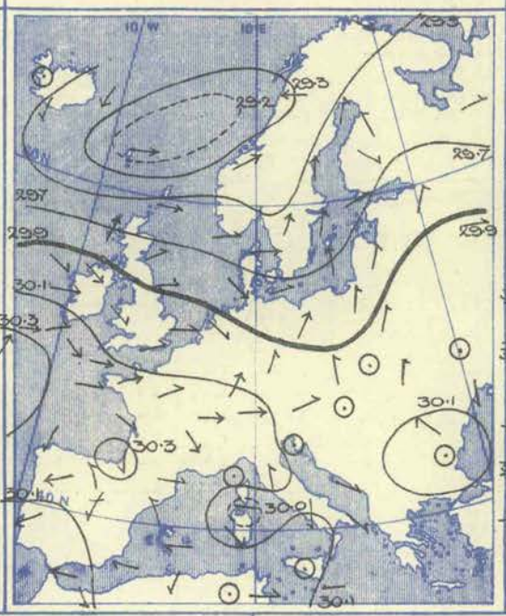
Barometer in morning above 30·2 ins. over the Bay of Biscay, and relatively high over the southern half of the Continent. Below 29·4 ins. in a large depression lying over the White Sea, and below 29·3 ins. in a large system over Iceland and its vicinity. A well-marked "V-shaped" secondary lying over these Islands. Icelandic depression travelling eastwards during day, and secondary over this country moving in a similar direction. Pressure increasing on our western coasts, but little modification occurring in the general distribution.

Saturday, 17th July, 1909.

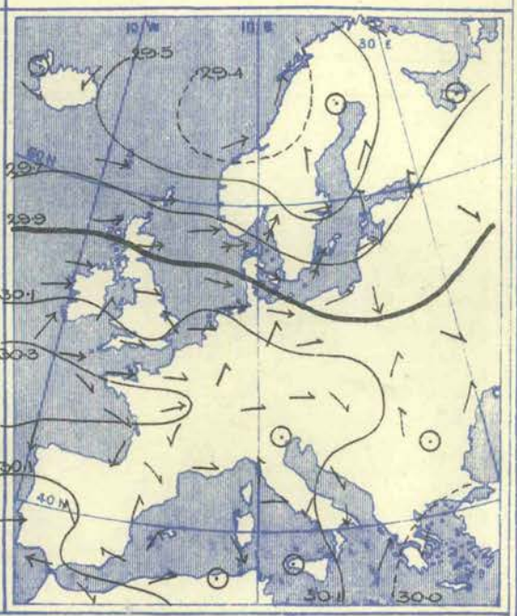
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in most parts of central Europe, and cloudy, or overcast, in most of the northern and north-western regions, but fair to fine and bright in the south and over the major portion of Russia. Considerable or heavy rain later in Finland and some parts of Scandinavia, and slight amounts in various parts of these Islands and at a few stations elsewhere.

Temperature changed rather irregularly; risen in the south of England. Readings in morning 60°, or a few degrees above, at many English stations, and about 60° over a vast area on the Continent; above 70° at most of the Mediterranean stations, and about 80° at Oporto. Maxima during day about 74° or 75° in the south and east of England, and about 70° over Germany and Austria; between 75° and 85° over the south of our area, and about 90° in places; highest value 97° at Madrid.

Wind in morning showing a very extensive cyclonic circulation over the north-western regions; Westerly current, fresh to strong, at some of our own northern stations and in Norway, but little force generally. A light to fresh Easterly breeze prevailing over the Spanish Peninsula. Increasing to a gale from West or South-West later in the south of Scandinavia, and from East at San Fernando.

Barometer in morning above 30·2 ins. over the Bay of Biscay and the greater part of France, and relatively high over the south of the Continent generally. Below 29·2 ins. in a large depression having its minimum some distance beyond the north of Scotland. Below 30·0 ins. in a small depression over Corsica. Northern depression moving eastwards later, and gradient increasing considerably over Denmark and southern Scandinavia. South-western anticyclone extending somewhat in a northerly and easterly direction.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second). *See* also p. 228.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	July 11th, 10.20 a.m. to 11.20 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	285·5° 90% 340°, 6	284·5° 90% 340°, 12	280° 95% 20°, 12					277° 95% 30°, 12	700	S.-Cu. and Cu.-N. No clouds reached. Very unreliable wind. Thundery. Great variations of temp.
2	July 12th, 4.25 a.m. to 7.30 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282° 80% 354°, 7	281° 80% 353°, 7	281° 78% 351°, 8	278° 76% 342°, 16	279° 57% 339°, 15			277° 85% 330°, 14	2,200	Fair, some sunshine, gentle breeze. Clouds S. Two kites on one wire. Clock stopped above 1,500 m.
3	July 12th, 10.5 a.m. to 11.25 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	287° 80% 350°, 6	286·5° 80% 350°, 9	284·5° 90% 350°, 13	280° 95% 350°, 17				279° 100% 350°, 13	1,150	Clouds at 900 m. Overcast, but clearing.
4	July 13th, 2.41 p.m. to 4.24 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	288·5° 87% 300°, 5	288° 90% 295°, 7	287·5° 92% 287°, 8	285° 99% 267°, 12	282° 100% 268°, 12			280° 100% 263°, 12	1,900	Dull and wet, gentle breeze. Clouds, N. and Cu.-N. 8 to 10.
5	July 14th, 11.50 a.m. to 12.50 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 82% 270°, 5	286° 85% 266°, 8	286° 87% 263°, 10	279° 99% 254°, 15				279° 100% 254°, 15	1,130	Overcast. Clouds N. and A.-Cu. Gentle breeze.
6	July 15th, 10.19 a.m. to 12.57 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	285° 100% 270°, 5	284° 98% 269°, 7	284° 97% 269°, 8	281° 97% 273°, 12	279° 93% 278°, 12	279° 79% 278°, 14		279° 68% 278°, 15	2,340	Overcast, dull, slight rain. Clouds, N. 10. Gentle breeze. Two kites on one wire.
7	July 15th,	Brighton, 115 m.	Temperature Humidity .. Wind	289° 95% 260°, 4	288° 95% —, 8	287° 90% —, 10					286·5° 85% 290°, 10	650	Little cirrus and also light low scud.
8	July 16th, 8.13 p.m. to 9.40 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind ..	285° 100% 309°, 6	284° 100% 305°, 13	283° 100% 303°, 18	280° 100% 304°, 17	278° 100% 310°, 17			278° 100% 310°, 17	1,700	Dull and wet. Clouds, N. 10. Moderate breeze.
9	July 17th, 6.39 a.m. to 8.1 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 92% 264°, 5	282° 93% 264°, 13	281° 95% 270°, 18	277° 87% 280°, 18				278° 50% 280, 19	1,340	Fair. Moderate breeze, gusty. Temp. inversion at 1,100 m. Clouds, Cu. and N. 10.
10	July 15th, and 17th.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind										On 15th and 17th attempts to raise a kite failed for want of wind above. On the 15th an unusual rise of temp. was found in the first 100 m.

Erratum.—Last week's Report, p. 224, in Table VII. Kite ascent No. 9 at Pyrton Hill, column $\frac{500}{(1,640\ ft.)}$ Wind should read "335, 14."

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10
No. of Kites	1	2	1	1	1	2	1	1	1	—
Area of Surface (sq. metres) ..	7	17·6	7	8·6	8·6	16	7	7·5	6	—
Length of Wire (metres)	1,000	3,000	1,500	3,000	2,000	2,140	?	?	1,600	—

63, Victoria Street, London, S.W. *July 21st, 1909.*

W. N. SHAW, *Director.*

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THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 29. TWENTY-NINTH WEEK, SUNDAY JULY 18TH TO SATURDAY JULY 24TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather varied a good deal, but regarded as a whole it was fair to fine in the south and east of England, and unsettled and showery in the north and west of the Kingdom. Thunderstorms were experienced in some parts of Lancashire on Friday.

Temperature was equal to the average in England, N.E., slightly above it in England, E., below it elsewhere. In Scotland, N., and W., the departure from the normal was nearly 2°. The highest of the maxima occurred during the earlier half of the week, and ranged from 76° in England, E., and 75° in England, S.E., and S.W., and the Midland Counties to 68° in Ireland, N., and to 64° in Scotland, N. The lowest of the minima were registered at most stations on the 20th, where they varied from 40° in Scotland, N., and England, S.E., to 46° in England, E., and N.W., and to 53° in the English Channel. The lowest grass readings reported were 31° at Llangammarch Wells, 34° at Birmingham, and 36° at Crathes, Hereford and Greenwich.

Mean Temperature of the Sea.—On most parts of the coast the water was colder than during the corresponding week of last year, the greatest difference being 4° at Aberdeen. The actual temperature for the week ranged from nearly 63° at Margate and about 61½° at Eastbourne and Plymouth to about 55½° at Scarborough, Aberdeen and Ballantrae, and to 51° at Lerwick.

Rainfall was considerably more than the average in Scotland, N., and W., and England, N.W., and about normal in Ireland, but less in all other districts, the fall being much below the normal in England, E., S.E., and the English Channel. Douglas and some Scottish localities experienced more than an inch on one of the later days of the week, Holyhead 1·5 inch.

Bright Sunshine somewhat exceeded the average except in Scotland, W., England, N.W., and the English Channel. The percentage of the possible duration ranged from 55 in England, S.E., and 54 in England, E., to 29 in Scotland, N., and Ireland, N., and to 28 in England, N.W.

Barometer and Wind.—The barometer was highest either to the southward or south-westward of the United Kingdom, while low pressure systems travelled in a general north-easterly direction beyond our north-western and northern coasts, at times spreading over this country. The general direction of the wind was consequently between South-West and West or North-West, and as the gradient was often moderate to rather steep, its force was frequently rather strong for the time of year, especially on the western and north-western coasts. During Friday the central space of a well-defined depression remained about stationary off the north of Scotland, moving slowly south-eastwards during the night. At the end of the period a disturbance of increasing intensity arrived over the south of Ireland from the Atlantic.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 236.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Deficient
	Rainfall ...	Heavy	Light	Light	Light	Light	Very light	Heavy	Heavy	Moderate	Moderate	Moderate	Light
	Sunshine ...	Abundant	Abundant	Moderate	Abundant	Abundant	Abundant	Moderate	Scanty	Moderate	Moderate	Abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 7 weeks from June 6th, 1909.	Warmth ...	0 * 4	0 * 5	0 * 5	0 * 5	0 * 4	0 * 6	0 * 4	0 * 4	0 * 5	0 * 3	0 * 3	0 * 6
	Rainfall ...	2 * 3	1 * 4	2 * 4	2 * 2	2 * 2	2 * 2	2 * 2	3 * 2	2 * 3	1 * 2	1 * 4	2 * 4
	Sunshine ...	1 * 2	3 * 1	0 * 5	1 * 5	1 * 5	1 * 4	1 * 2	1 * 4	2 * 3	0 * 3	1 * 3	2 * 2

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	5 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 2	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5

8038 450 Wy. & S. Ltd. 7—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

TWENTY-NINTH WEEK—July 18th to July 24th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	64	40	58·7	48·5	53·2	− 1·8	78	− 13	0	0	6	+ 1	1·41	+0·63	35	+ 6	29	+ 5
Eastern																		
1. SCOTLAND, EAST	73	41	63·8	48·5	55·6	− 1·3	95	− 9	0	0	4	0	0·44	−0·29	40	+ 5	34	+ 4
2. ENGLAND, N.E.	73	45	66·6	51·8	58·7	0·0	117	0	0	0	3	0	0·29	−0·25	48	+ 4	42	+ 4
3. ENGLAND, EAST	76	46	70·0	53·2	61·0	+ 0·3	133	+ 2	0	0	3	0	0·11	−0·48	60	+ 13	54	+12
4. MIDLAND COUNTIES	75	42	67·7	51·9	59·2	− 0·9	120	− 7	0	0	3	0	0·28	−0·30	48	+ 7	43	+ 6
5. ENGLAND, S.E.	75	40	68·0	54·4	60·7	− 0·9	131	− 6	0	0	1	− 2	0·10	−0·45	61	+ 13	55	+12
Western																		
6. SCOTLAND, WEST	69	43	61·2	50·6	55·5	− 1·9	95	− 12	0	0	5	+ 1	1·51	+0·69	36	− 3	31	− 2
7. ENGLAND, N.W.	70	46	63·1	52·5	57·4	− 1·6	108	− 11	0	0	6	+ 2	1·12	+0·40	32	− 8	28	− 7
8. ENGLAND, S.W.	75	40	65·1	53·6	59·0	− 1·0	119	− 7	0	0	4	0	0·45	−0·30	48	+ 5	43	+ 5
9. IRELAND, NORTH	68	45	62·5	50·9	56·3	− 1·1	100	− 8	0	0	6	+ 1	0·68	−0·12	33	+ 3	29	+ 3
10. IRELAND, SOUTH	74	45	64·9	52·8	58·5	− 0·6	116	− 4	0	0	4	− 1	0·87	+0·15	43	+ 9	39	+ 8
11. ENGLISH CHANNEL	71	53	65·2	55·6	60·1	− 1·4	127	− 10	0	0	4	0	0·10	−0·47	50	− 2	46	− 2

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 7 Weeks, June 6th to July 24th, 1909.

0. SCOTLAND, NORTH	71	35	*	*	*	*	509	− 65	0	− 2	31	+ 3	4·69	−0·27	208	− 26	24	− 3
Eastern																		
1. SCOTLAND, EAST	75	31	*	*	*	*	563	− 86	0	− 1	24	0	3·30	−0·81	276	− 5	33	− 1
2. ENGLAND, N.E.	73	33	*	*	*	*	642	− 83	0	0	24	+ 3	3·84	+0·65	231	− 80	28	−10
3. ENGLAND, EAST	77	35	*	*	*	*	707	−110	0	0	26	+ 6	3·60	+0·21	269	− 71	34	− 9
4. MIDLAND COUNTIES	77	33	*	*	*	*	675	−129	0	0	25	+ 5	3·88	+0·43	230	− 76	29	− 9
5. ENGLAND, S.E.	75	35	*	*	*	*	717	−140	0	0	24	+ 5	3·56	+0·40	274	− 74	35	− 9
Western																		
6. SCOTLAND, WEST	74	32	*	*	*	*	607	− 89	0	0	26	+ 1	6·21	+1·09	293	− 4	35	− 1
7. ENGLAND, N.W.	74	32	*	*	*	*	640	−118	0	0	27	+ 4	4·83	+0·87	260	− 51	32	− 6
8. ENGLAND, SW.	75	30	*	*	*	*	689	−110	0	0	25	+ 2	3·58	−0·43	308	− 23	39	− 3
9. IRELAND, NORTH	75	33	*	*	*	*	625	− 75	0	0	29	0	4·28	−0·34	215	− 38	26	− 5
10. IRELAND, SOUTH	76	36	*	*	*	*	718	− 56	0	0	24	− 1	3·58	−0·77	242	− 39	30	− 5
11. ENGLISH CHANNEL	71	42	*	*	*	*	769	− 82	0	0	18	− 5	2·08	−1·12	391	− 6	50	− 1

THE YEAR.—Aggregates, &c., for the Period of 29 Weeks, January 3rd to July 24th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	938	− 84	535	− 22	134	+ 2	21·12	−4·68	705	− 23	26	− 1
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	1041	−139	673	+ 53	111	+ 3	17·56	+2·19	820	− 29	31	− 1
2. ENGLAND, N.E.	81	14	*	*	*	*	1240	− 37	580	+105	98	0	13·19	+1·52	888	− 25	34	− 1
3. ENGLAND, EAST	82	12	*	*	*	*	1376	−132	554	+ 33	101	+ 6	11·73	+0·02	1033	+ 58	40	+ 2
4. MIDLAND COUNTIES	82	8	*	*	*	*	1395	−128	642	+109	93	− 1	12·69	−0·47	916	+ 44	35	+ 3
5. ENGLAND, S.E.	82	0	*	*	*	*	1419	−205	482	+101	95	+ 5	13·46	+0·69	1091	+112	42	+ 4
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	1194	− 94	445	+ 20	109	− 5	23·73	+0·79	898	+ 28	34	+ 1
7. ENGLAND, N.W.	79	10	*	*	*	*	1277	−105	466	+ 80	104	0	16·81	+0·51	980	+ 98	37	+ 4
8. ENGLAND, S.W.	81	7	*	*	*	*	1374	−190	390	+ 89	103	0	16·09	−2·00	1054	+ 86	40	+ 3
9 IRELAND, NORTH	75	14	*	*	*	*	1297	− 63	315	− 30	128	+ 4	18·31	−0·27	790	− 23	30	− 1
10. IRELAND, SOUTH	76	15	*	*	*	*	1543	− 50	265	+ 6	118	+ 7	19·07	−0·80	902	− 0	34	0
11. ENGLISH CHANNEL	78	25	*	*	*	*	1731	− 39	151	+ 42	96	−14	14·14	−0·98	1255	+ 94	48	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℳ is supplied by the Royal Meteorological Society, and that for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked M or $ are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N. a, Islands.	*p Balta Sound* S	*59*	*24th*	*46*	*20th*	*56·4*	*48·1*	*52·0*	—	*70*	*0*	7	*2·51*	—	*44·4*	—	*36*	—	*Balta Sound.*
	a Sumburgh Head ..	56	18, 23, 24th	47	18, 19, 20, 23	55·1	47·4	51·0	- 1·4	63	0	5	1·32	+ 0·77	59·2	+27·9	49	+23	Deerness.
	a Stornoway	60	20th	48	23rd, 24th	58·3	49·9	53·8	- 0·5	83	0	7	1·39	+ 0·70	33·8	+ 1·3	28	+ 1	Stornoway.
	a Castlebay, Barra Isd.	*58*	*19th*	*49*	*24th*	*56·6*	*50·9*	*53·6*	- *2·9*	*81*	*0*	*7*	*0·92*	—	*24·9*	—	*21*	—	*Castlebay.*
	a Wick	61	18th, 23rd	40	24th	59·9	45·6	52·3	- 2·1	72	0	7	0·87	+ 0·26	*	*	*	*	*
	p Strathpeffer	64	20th, 22nd	47	23rd, 24th	61·3	49·6	55·0	- 1·1	91	0	7	0·34	- 0·29	23·6	- 5·6	20	- 5	Strathpeffer.
	p Glencarron	59	19th	46	24th	56·2	48·0	51·8	- 2·1	69	0	7	2·12	+ 0·87	*	*	*	*	*
	p Fort Augustus S	63	19th, 21st	47	23rd, 24th	60·3	49·6	54·6	- 1·3	88	0	3	0·33	+ 0·16	22·0	- 0·5	19	0	Fort Augustus.
	p Fort William S	62	18th, 21st	47	23rd	59·6	49·5	54·2	- 2·0	85	0	7	3·03	+ 1·88	*	*	*	*	*
1. SCOTLAND, E.	*p* Gordon Castle S	66	22nd	43	24th	63·8	46·8	54·7	- 2·0	89	0	5	0·40	- 0·38	*39·9*	—	*34*	—	*Gordon Castle.*
	a Nairn	69	20th, 22nd	41	24th	64·4	47·1	55·2	- 1·4	92	0	3	0·36	- 0·21	42·3	—	36	—	Nairn.
	a Aberdeen	67	21st, 22nd	48	19, 20, 23rd	64·6	50·6	57·1	+ 0·7	106	0	3	0·35	- 0·28	36·9	+ 0·3	31	0	Aberdeen.
	a Balmoral	73	19th	43	24th	66·7	45·9	55·6	+ 1·3	95	0	2	0·31	- 0·34	31·3	—	27	—	Crathes S.
	p Crieff .. .. S	67	21st	46	23rd	63·8	49·1	55·9	- 2·0	97	0	4	0·25	- 0·43	39·4	—	34	—	Balruddery
	a Leith	66	18th, 21st	50	23rd, 24th	64·7	52·0	57·9	- 0·5	111	0	5	0·18	- 0·42	42·4	+10·0	36	+ 9	Edinburgh.
	a West Linton .. S	62	21st, 22nd	43	20th	60·2	47·1	53·2	- 2·2	78	0	5	1·18	—	*27·9*	—	*24*	—	*West Linton.*
	p Marchmont .. S	66	21st	45	23rd	62·4	49·1	55·3	- 1·2	93	0	4	0·47	- 0·28	50·2	+12·0	43	+10	Marchmont.
2. ENGLAND, N.E. a, North.	*a* Alnwick Castle ..	70	21st	47	24th	65·2	51·4	57·8	+ 0·5	111	0	3	0·43	- 0·21	49·9	—	43	—	Cockle Park.
	a Shields	71	20th	48	20th, 24th	67·4	51·0	58·6	+ 0·9	116	0	3	0·29	- 0·27	*46·2*	*+13·5*	*40*	*+12*	*Newcastle.*
	p Durham	69	18th	48	19, 20, 24th	65·9	50·9	57·9	- 0·9	111	0	3	0·53	- 0·13	46·8	+ 9·1	41	+ 8	Durham.
	p Rounton .. M	71	18th	45	20th	65·9	50·4	57·6	0·0	109	0	6	0·48	- 0·14	*	*	*	*	*
	p Scarborough .. M	73	18th	48	24th	68·3	53·6	60·4	+ 1·7	129	0	4	0·18	- 0·37	51·9	—	46	—	Scarborough.
	p York	68	18th	48	21st, 24th	65·6	51·9	57·8	- 2·3	111	0	3	0·25	- 0·32	32·3	- 7·7	28	- 7	York.
b, South.	*a* Spurn Head	69	20th	50	24th	66·0	53·9	59·5	- 0·2	123	0	3	0·11	- 0·27	*	*	*	*	*
	a Lincoln	71	18th, 20th	47	20th	67·7	52·1	59·4	- 1·7	122	0	2	0·23	- 0·27	53·3	—	47	—	Skegness.
	a Fulbeck	72	18th	47	19th, 20th	67·2	52·2	59·2	- 1·6	120	0	2	0·14	- 0·38	51·5	—	46	—	Rauceby.
															59·6	—	*53*	—	*Lowestoft.*
3. ENGLAND, E. a, North.	*p* Cromer	75	18th, 19th	49	20th, 24th	70·6	52·9	61·1	+ 1·1	134	0	3	0·07	—	53·3	—	47	—	Cromer.
	p Hillington .. M	72	18th	47	20th	67·8	52·0	59·4	- 1·2	122	0	4	0·33	- 0·27	50·6	+ 5·3	45	+ 5	Hillington.
	a Yarmouth	75	18th	49	20th	70·0	53·7	61·3	+ 1·1	125	0	2	0·09	- 0·45	59·4	—	53	—	Yarmouth.
	a Norwich	74	18th	48	20th	69·8	53·1	60·9	+ 0·6	132	0	5	0·10	—	*	*	*	*	*
	p Geldeston	75	18th	46	20th	70·5	52·5	60·9	+ 0·4	132	0	2	0·03	- 0·47	55·2	+ 6·9	49	+ 6	Geldeston.
	p Cambridge	75	18th	46	20th	70·4	52·2	60·7	- 1·2	131	0	2	0·04	- 0·48	65·0	+17·8	58	+16	Cambridge.
b, South.	*a Felixstowe*	*73*	*18th*	*48*	*20th*	*67·1*	*54·3*	*60·3*	- *1·4*	*128*	*0*	*1*	*0·04*	—	*64·8*	—	*58*	—	*Felixstowe.*
	a Clacton-on-Sea ..	76	18th	48	20th	71·0	54·6	62·2	+ 0·5	141	0	2	0·06	—	63·7	—	57	—	Clacton.
	a Rothamsted ..	74	18th	46	20th	68·7	52·1	59·8	- 0·6	125	0	4	0·17	- 0·38	65·0	+16·3	59	+15	Rothamsted.
	a Shoeburyness ..	*76*	*18th*	*49*	*20th*	*71·1*	*55·7*	*62·9*	- *0·3*	*146*	*0*	*2*	*0·15*	- *0·25*	*64·1*	—	*57*	—	*Southend.*
	p Tottenham	76	18th	51	20th	71·1	55·6	62·8	+ 0·8	146	0	1	0·14	—	67·1	—	59	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	*a* Harrogate	66	18th, 22nd	44	24th	63·5	49·9	56·2	- 1·3	99	0	5	0·77	+ 0·23	36·7	—	32	—	Harrogate.
	a Bawtry	71	20th	45	20th	67·4	51·4	58·8	- 1·4	118	0	1	0·10	- 0·42	38·6	+ 1·1	34	+ 1	Worksop.
	p Buxton .. M	*65*	20th, 22nd	*43*	*19th*	*61·5*	*48·6*	*54·6*	- *2·3*	*88*	*0*	*5*	*0·57*	- *0·28*	*41·6*	—	*37*	—	*Buxton.*
	a Nottingham ..	73	18th	48	19th, 20th	67·4	52·1	59·2	- 1·5	120	0	4	0·18	- 0·33	45·1	—	40	—	Nottingham.
	p Birmingham, Edgbn	72	20th	49	20th, 23rd	66·2	52·4	58·8	- 1·4	118	0	3	0·26	- 0·24	50·7	—	45	—	Birmingham.
	a Raunds .. M	74	18th	45	20th	70·6	50·7	60·0	- 1·2	126	0	2	0·14	—	*	*	*	*	*
	a Oxford	73	18th, 20th	48	20th	69·3	53·9	61·1	- 0·5	134	0	5	0·15	- 0·39	61·6	+15·9	56	+14	Oxford.
b, West.	*a* Cheadle .. M	70	20, 21, 22nd	45	20th	66·6	50·0	57·7	- 0·6	110	0	5	0·93	+ 0·30	34·5	—	31	—	Sheffield.
	p Shrewsbury	72	20th	46	20th	67·6	51·9	59·2	- 0·3	120	0	5	0·35	—	*	*	*	*	*
	a Hereford .. M	75	18, 20, 21st	44	20th	71·0	52·4	61·1	+ 0·8	134	0	3	0·11	- 0·39	*	*	*	*	*
	a Cirencester	71	18th, 20th	42	20th	68·2	50·5	58·7	- 0·9	117	0	3	0·08	- 0·50	57·8	+12·8	52	+12	Cirencester.
	a Bath	70	19th, 20th	50	20th	66·6	55·6	60·7	- 0·3	131	0	2	0·04	- 0·54	55·4	—	50	—	Bath.
															67·7	—	*61*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	75	18th	49	20th	70·4	55·7	62·5	+ 0·3	144	0	2	0·07	- 0·45	62·4	+15·5	56	+14	Kew.
	a Marlborough ..	72	18th	40	20th	68·3	51·6	59·4	- 0·3	122	0	2	0·41	- 0·14	53·8	+10·9	49	+10	Marlborough.
	a Margate	74	18th	52	24th	70·2	55·5	62·3	+ 0·4	142	0	1	0·05	- 0·39	61·7	+14·9	56	+13	Margate.
	a Wisley, Surrey ..	75	18th	47	20th	69·9	54·5	61·7	- 1·0	138	0	2	0·15	—	65·9	—	59	—	Wisley.
	a Swarraton .. M	73	18th	43	20th	68·6	52·8	60·2	+ 0·2	127	0	1	0·10	- 0·43	61·8	—	56	—	Worthing.
	a Tunbridge Wells M	75	18th	46	20th	68·8	52·4	60·0	- 0·9	126	0	1	0·02	- 0·48	65·1	+17·5	59	+16	Tunbridge Wells.
	a Dungeness	67	19th, 20th	49	20th	64·1	55·4	59·5	- 1·6	123	0	3	0·20	- 0·19	61·9	—	56	—	Littlestone.
	p Hastings	69	19th	52	20th	64·5	54·6	59·2	- 1·9	120	0	1	0·01	- 0·48	*60·0*	*+ 5·7*	*55*	*+ 5*	*Hastings.*
	p Southampton ..	75	19th	50	20th	69·6	55·3	62·0	- 1·0	140	0	1	0·01	- 0·52	60·9	+10·4	55	+ 9	Southampton.
	a Ventnor	72	19th	52	20th	65·6	56·3	60·6	- 1·3	130	0	0	0·00	- 0·48	57·2	+ 7·5	52	+ 7	Ventnor.
															59·5	+ 5·5	54	+ 5	Eastbourne.
LONDON	*a Westminster* ..	*75*	*18th*	*51*	*20th*	*70·3*	*56·0*	*62·7*	+ *0·5*	*145*	*0*	*3*	*0·10*	- *0·40*	*59·1*	*+18·1*	*52*	*+15*	*Westminster.*
	a Greenwich	*78*	*18th*	*49*	*20th*	*72·7*	*54·6*	*63·0*	- *0·1*	*147*	*0*	*2*	*0·15*	- *0·38*	*63·0*	*+ 9·7*	*56*	*+ 9*	*Greenwich.*
6. a, SCOTLAND. W. ..	*p* Laudale	62	24th	48	23rd	59·5	50·3	54·6	- 2·3	88	0	7	3·45	+ 2·34	*	*	*	*	*
	a Poltalloch .. S	62	18th	47	23rd, 24th	59·1	49·6	54·0	- 3·5	84	0	6	2·28	+ 1·36	*	*	*	*	*
	p Glasgow	62	18th	48	23rd	60·6	50·9	55·4	- 2·1	94	0	4	0·55	- 0·17	30·5	- 1·6	26	- 1	Glasgow.
	p Rothesay .. S	63	18th, 19th	48	23rd	61·6	50·9	55·9	- 1·4	97	0	5	1·45	+ 0·53	*	*	*	*	*
	a Kilmarnock	69	18th	43	20th	62·3	49·3	55·4	- 2·2	94	0	4	1·24	—	*25·0*	—	*23*	—	*Kilmarnock.*
	a Colmonell	64	19th	45	23rd	62·1	50·9	56·1	- 1·1	99	0	4	1·20	+ 0·47	*	*	*	*	*
	p Dumfries	68	18th, 19th	48	24th	63·7	53·7	58·4	- 0·3	115	0	5	0·80	+ 0·04	*40·6*	—	*35*	—	*Dumfries*
b, ISLE OF MAN ..	*p* Cally, Gatehouse S	67	18th	48	23rd	61·3	49·7	55·1	- 2·7	92	0	5	1·27	+ 0·41	*	*	*	*	*
	p Douglas	64	18th	48	20th	60·9	49·9	55·0	- 2·3	91	0	5	1·32	+ 0·64	40·4	- 4·1	35	- 4	Douglas.
															34·1	—	30	—	Hoylake.
7. a, ENGLAND, N.W. ..	*p* Aspatria	65	18th	49	20th	61·7	52·0	56·5	- 0·3	102	0	5	1·66	+ 0·81	30·5	—	27	—	Aspatria.
	p Newton Rigg ..	66	18th, 20th	46	20th	62·8	50·7	56·3	- 0·5	100	0	5	1·43	+ 0·73	33·8	- 6·2	29	- 5	Newton Rigg.
	p Stonyhurst	64	22nd	47	24th	61·2	51·5	56·0	- 2·1	98	0	6	1·24	+ 1·07	23·9	-16·4	21	-14	Stonyhurst.
	p Blackpool .. M	64	22nd, 23rd	49	24th	62·8	53·7	57·9	- 1·3	111	0	6	1·22	+ 0·59	31·1	-11·1	27	-10	Blackpool.
	p M'nch'ster, Prestwich	67	22nd	48	20th, 24th	63·2	51·1	56·7	- 2·4	103	0	5	0·64	- 0·09	*23·2*	*-14·4*	*19·6*	*-13*	*Prestwich.*
	a Liverpool (Bidston)	67	22nd	50	23rd, 24th	64·0	53·6	58·4	- 1·9	115	0	6	0·54	- 0·06	*58·2*	—	*34*	—	*Liverpool.*
	a Hawarden Bridge ..	70	20th	50	20th, 24th	65·6	53·8	59·3	- 0·8	121	0	5	0·13	- 0·36	*30·0*	*-14·8*	*26*	*-13*	*Southport.*
															39·1	—	*35*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	68	20th	52	23rd	64·4	54·2	58·9	- 0·8	118	0	6	0·65	+ 0·12	38·3	- 3·4	34	- 3	Llandudno.
	a Holyhead	65	19th, 21st	54	23rd, 24th	62·7	53·1	57·6	- 0·6	109	0	6	2·08	+ 1·50	36·2	—	32	—	Aberdovey.
	p Bettws-y-Coed ..	66	19th	46	20th	62·7	51·3	56·6	- 2·4	102	0	6	0·92	—	25·8	—	23	—	Bettws-y-Coed.
															31·9	—	29	—	Aberystwyth.
8. a, SOUTH WALES ..	*a* Llangammarch Wells	67	20th	40	20th	63·4	48·9	55·7	- 2·4	96	0	6	0·55	—	40·2	—	36	—	Llangammarch Wells.
	a Pembroke	60	19, 20, 22nd	53	19, 20, 24th	59·3	53·7	56·3	- 2·0	100	0	4	0·46	- 0·09	52·8	+ 3·4	48	+ 6	Pembroke.
	a Cardiff	68	19th	48	20th	64·5	53·1	58·4	- 2·6	115	0	5	0·26	- 0·47	*41·5*	—	*37*	—	*Cardiff.*
															46·5	*- 0·5*	*42*	*0*	*Tenby.*
	a Clifton	70	19th	51	24th	67·0	55·7	61·0	- 0·8	133	0	5	0·73	+ 0·08	*53·9*	—	*49*	—	*Clifton.*
	a Shaftesbury .. M	? 74	19th	48	24th	67·0	52·6	59·3	- 0·4	121	0	3	0·18	- 0·41	*	*	*	*	*
	a Arlington	66	20th	47	20th	62·7	52·1	57·0	- 1·2	105	0	6	1·09	- 0·10	43·0	- 5·4	39	- 5	Newquay.
b, ENGLAND, S.W. ..	*a* Cullompton .. M	75	18th, 19th	47	20th	70·9	54·1	61·9	+ 1·5	139	0	4	0·40	- 0·25	53·5	+11·1	49	+10	Cullompton.
	a Portland Bill ..	63	19th	55	20th	60·9	56·9	58·8	- 1·3	118	0	0	0·00	—	*60·0*	—	*55*	—	*Weymouth.*
	p Plymouth	74	19th, 20th	52	20th	69·0	55·2	61·6	+ 0·6	137	0	4	0·57	- 0·08	56·3	+ 8·7	51	+ 8	Plymouth.
	p Falmouth	72	18th	51	23rd	66·4	53·9	59·7	- 0·5	124	0	5	0·28	- 0·38	57·1	+ 5·7	52	+ 5	Falmouth.
															69·9	*+19·8*	*64*	*+18*	*Torquay.*
9. IRELAND, N. a, West.	*a* Malin Head	60	18, 20, 22nd	49	23rd, 24th	58·7	51·1	54·6	- 1·8	88	0	6	1·13	+ 0·48	*	*	*	*	*
	a Blacksod Point ..	62	18th, 19th	50	23rd, 24th	60·3	52·9	56·3	- 1·2	100	0	6	1·04	+ 0·36	*	*	*	*	*
	p Markree Castle ..	66	22nd	45	23rd	63·2	49·3	55·8	- 1·1	97	0	6	0·54	- 0·23	34·7	+ 5·5	30	+ 5	Markree Castle.
	a Birr Castle	68	18th, 20th	47	23rd	64·7	51·4	57·6	- 0·8	109	0	6	0·43	- 0·22	*46·8*	*+ 9·5*	*36*	*+ 8*	*Birr Castle.*
b, East.	*p* Armagh	68	22nd	47	23rd	64·3	49·2	56·6	- 1·1	102	0	5	0·58	- 0·10	31·7	- 0·7	28	- 1	Armagh.
	a Donaghadee	65	19, 20, 22nd	47	23rd	63·6	50·7	56·7	- 0·8	103	0	5	0·35	- 0·31	*	*	*	*	*
10. IRELAND, S. a, East.	*p* Dublin, City	70	20th	50	19th	66·4	53·8	59·7	- 0·7	124	0	5	0·87	+ 0·36	45·0	+ 7·2	40	+ 6	Phœnix Park.
	a Kilkenny	70	18th, 20th	46	19th	66·0	51·9	58·5	- 0·4	116	0	4	0·69	+ 0·07	*	*	*	*	*
	a Waterford	70	18th	46	19th	66·4	51·3	58·3	- 1·4	114	0	3	0·97	+ 0·22	*	*	*	*	*
	a Birr Castle	68	18th, 20th	47	23rd	64·7	51·4	57·6	- 0·8	109	0	6	0·43	- 0·22	40·8	+ 9·5	36	+ 8	Birr Castle.
b, West.	*a* Foynes	69	20th	50	23rd	62·6	54·4	58·2	- 0·6	113	0	5	0·56	- 0·13	*	*	*	*	*
	a Cahir .. .. M	74	20th	45	23rd	66·3	51·4	58·3	- 0·7	114	0	4	1·09	—	*	*	*	*	*
	a Killarney	68	20th	48	19th	65·7	53·1	59·0	+ 0·5	119	0	3	1·36	+ 0·60	*	*	*	*	*
	a Valencia	65	20th	52	19th, 23rd	61·3	54·7	57·8	- 0·6	111	0	6	1·33	+ 0·47	37·2	+ 2·7	33	+ 2	Valencia.
	a Roche's Point ..	69	18th	50	19th	65·0	53·4	58·5	- 0·5	118	0	3	0·51	- 0·13	50·6	—	46	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	66	22nd	55	19th	63·6	56·3	59·7	- 1·0	124	0	3	0·13	- 0·41	47·2	- 2·1	43	- 2	Scilly.
	a Jersey, St. Aubins ..	69	20th	54	19, 20, 21st	65·4	55·3	60·0	- 2·2	126	0	4	0·06	- 0·44	46·2	-10·3	42	- 9	St. Heliers.
	a Guernsey	71	20th	53	20th	66·6	55·2	60·5	- 0·8	130	0	5	0·12	- 0·37	57·7	- 0·7	53	- 1	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 55·2 hrs.* (*+2·2 hrs.*), *50 %* (*+2 %*); *Bournemouth, 61·2 hrs., 56 %*; *Bognor, 62·0 hrs., 56 %*.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	53·5	—
	— —				
	— —				
1.	Aberdeen	—	—	—	52·9
	Crathes	0	36	58·7	54·5
	Balmoral	0	40	—	—
	West Linton	0	40	—	—
	Marchmont	0	40	57·1	—
2.	Cockle Park	0	41	57·6	54·3
	Durham	0	42	—	—
	York	—	—	58·4	55·0
	Hull	0	42	59·7	54·0
	Lincoln	—	—	59·9	55·0
	Rauceby	0	?46	63·0	55·7
3.	Norwich	0	44	—	—
	Yarmouth	0	—	61·6	59·4
	Lowestoft	0	46	63·5	58·2
	Cambridge	0	39	63·6	58·4
	Clacton-on-Sea	0	43	62·1	58·4
	Southend	0	50	63·3	—
	Tottenham	0	47	—	57·9
4.	Harrogate	0	39	55·6	53·8
	Huddersfield	0	43	59·3	53·5
	Buxton	0	38	56·5	51·9
	Sheffield	0	39	58·9	53·6
	Nottingham	0	40	60·0	56 7
	Birmingham	0	31	56·1	51·6
	Oxford	0	—	—	—
	Hereford	0	36	—	—
	Cirencester	0	38	—	—
5.	Margate	0	49	61·9	56·9
	Greenwich	0	36	—	—
	Westminster	0	44	—	—
	Kew	0	40	62·7	56·7
	Canterbury	0	43	60·2	56·9
	Tunbridge Wells	0	45	64·9	—
	Wisley	0	42	62·6	58·1
	Worthing	0	45	63·4	55·0
	Portsmouth	0	44	64·0	59·5
6.	Glasgow	0	45	—	—
	Rothesay	—	—	—	54·0
	Colmonel	0	45	—	—
	Dumfries	0	45	58·7	56·9
	Douglas	0	45	—	—
7.	Aspatria	0	45	—	—
	Newton Rigg	0	39	58·5	54·3
	Burnley	0	38	57·1	53·1
	Southport	0	43	63·0	59·8
	Manchester City	0	39	59·7	56·6
	Bettws-y-Coed	0	45	56·3	53·0
8.	Llangammarch Wells	0	31	58·9	53·5
	Cardiff	0	42	60·0	56·3
	Clifton	0	48	—	—
	Bath	—	—	62·6	58·0
	Plymouth	0	44	64·7	—
9.	Armagh	0	43	60·2	56·6
	Markree	0	40	—	—
10.	Dublin, Trin. Coll.	0	43	60·1	56·9
11.	Guernsey, Brooklyn	0	46	62·9	59·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	51	51	51·0
	Kirkwall	55	54	54·8
	Wick	59	58	58·6
SCOTLAND, E.	Cromarty	55	54	54·3
	Pennan Bay	58	55	56·5
	Aberdeen, Cove Bay	56	55	55·4
ENGLAND, N.E.	Burnmouth, Berwick	56	53	54·3
	Scarborough	60	52	55·6
ENGLAND, E.	Shipwash Lightship	61	59	59·9
	Margate‡	65	61	62·9
ENGLAND, S.E.	Eastbourne‡	62	61	61·4
SCOTLAND, W.	Lamlash	54	52	52·9
	Ballantrae	56	54	55·3
ENGLAND, N.W.	Port Erin	58	54	55·2
ENGLAND, S.W.	Newquay	60	59	59·1
	Plymouth‡	64	60	61·7
	Salcombe	60	57	58·4
IRELAND, N.W.	Sheephaven	58	58	58·0
	Teelin	61	57	58·9
IRELAND, S.W.	Cleggan	62	55	58·0
	Seafield	62	57	60·1
IRELAND, E.				

‡ Only one observation each day.

Kite and Balloon Ascents in addition to those shown on p. 240 were carrried out at the Howard Estate Observatory, Glossop, as follows :—

Date 1909.	Time.	Maximum height. Metres.	Apparatus.
July 19th.	12.11 a.m. to 1.28 a.m.	920	Captive balloon.
" "	1.28 a.m. to 2.46 a.m.	830	" "
" "	2.37 p.m. to 2.45 p.m.	1,160	Pilot balloon.
July 20th.	12.45 a.m. to 2.31 a.m.	700	Captive balloon.
" "	8.33 a.m. to 10.36 a.m.	1,530	One kite.
" "	10.48 a.m. to 1.13 p.m.	1,880	" "
" "	5.35 p.m. to 7.46 p.m.	2,040	" "
July 21st.	12.21 a.m. to 1.22 a.m.	—	Kite broke away from end of the storm wire.
" "	8.40 a.m. to 9.30 a.m.	—	Wire broke during the second of these ascents and the record for both not yet recovered.
" "	11.15 a.m. to 12.17 p.m.	—	
July 22nd	3.42 p.m. to 4.33 p.m.	—	Wire broken and kite lost.
" "	8.30 p.m. to —	—	Kite blown off the end of the storm wire.
July 23rd	1.29 p.m. to 1.45 p.m.	790	Storm kite.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

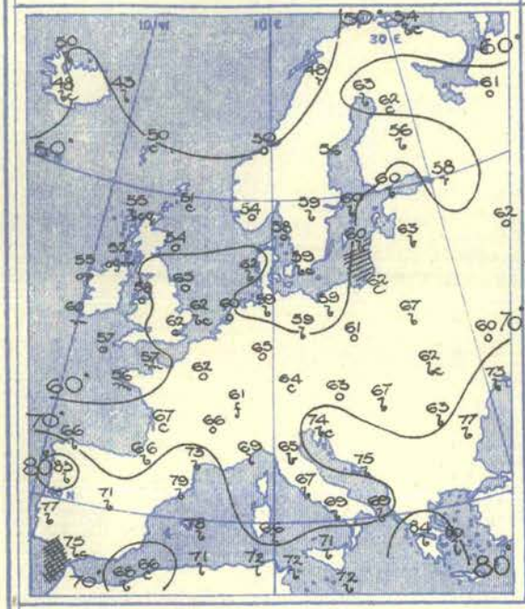
The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

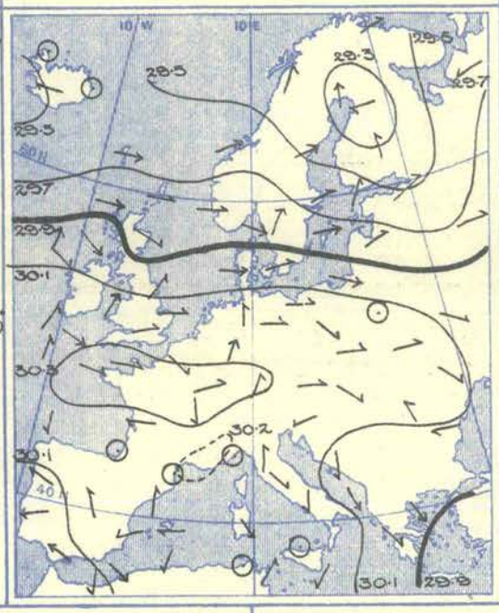
Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Sunday, 18th July, 1909.

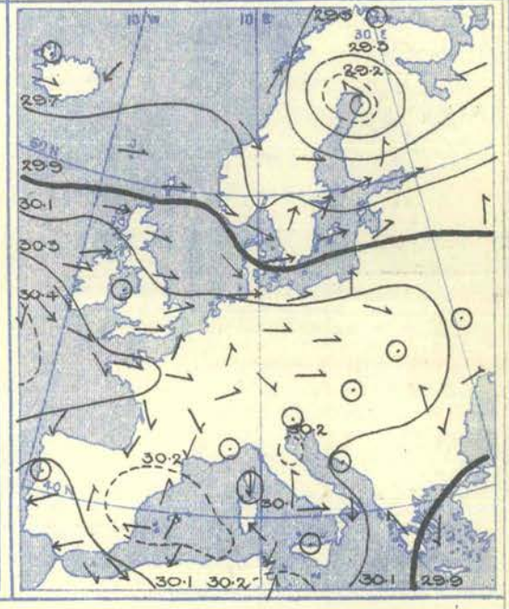
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy at a few of our own western stations and at some isolated places in the far north of our area. Overcast in some other localities, but generally fair to very fine. Rain later in many parts of Scandinavia, and a very slight fall in some other parts of our area.

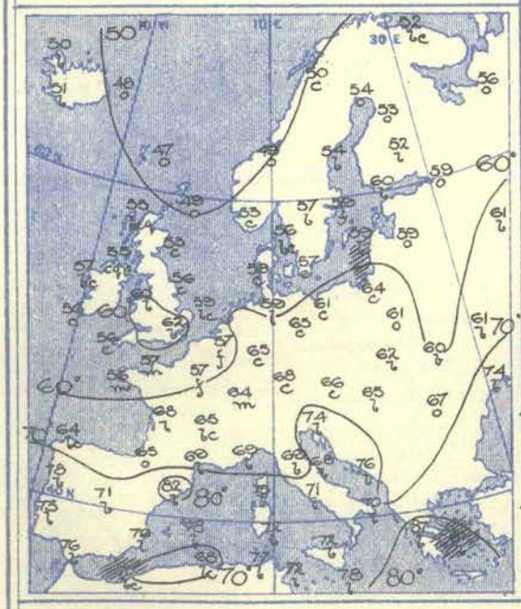
Temperature risen in several parts of the United Kingdom, not changed much generally. Readings in morning ranging from about 80° in Greece, and above 70° over a very large portion of the Mediterranean, to about 60° at many stations in the central countries and these Islands, and to below 50° in the north-west of Norway. Maxima during day about 75° over a considerable part of England, France, and central Europe, about 80° at many stations in the far south, and above 80° in places, 90° in Greece, 93° at Cette, and 97° at Madrid.

Wind in morning mainly Westerly over the main portion of our area; light to moderate as a whole, but strong in Scandinavia. Light and more variable breezes prevailing on the shores of the Mediterranean, but an Easterly gale blowing at San Fernando. A complete cyclonic circulation setting in later over the Scandinavian region, and some veering taking place in the south-west of these Islands.

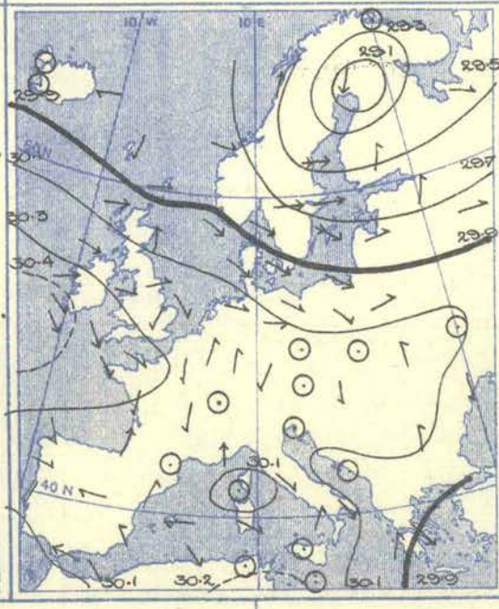
Barometer in morning 30·2 ins. to above 30·3 ins. in an anticyclone covering France and the regions surrounding; below 29·5 ins. in a depression to the westward of Iceland, and below 29·3 ins. in another system over the north of Finland. Some ill-defined secondaries shown over the north of this country. Little modification occurring in the general distribution during day, but Finnish depression becoming rather deeper. Barometer rising rather decidedly in Iceland and along the west coasts of these Islands.

Monday, 19th July, 1909.

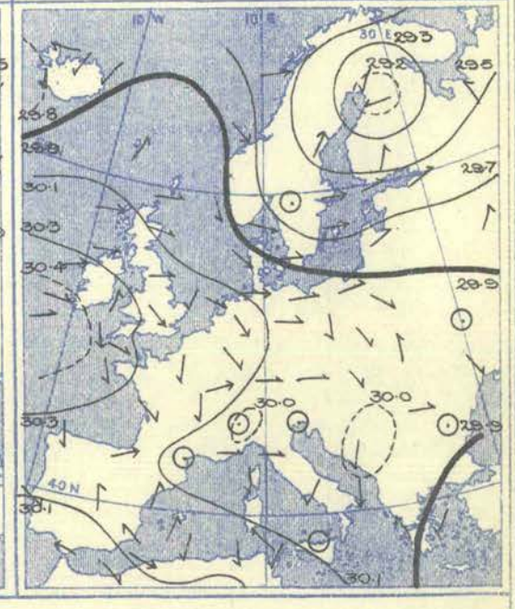
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine and bright over the major portion of our area, but overcast in a few localities, and showery at Malin Head. A little rain experienced later in the far north and west of these Islands and in some places over the northern regions of the Continent, but conditions remaining very fine generally.

Temperature fallen in most districts, risen in some southern localities. Morning readings about 60° over England and the nearer regions of the Continent, above 70° at a number of stations over the Mediterranean area, and nearly 90° in Greece. Below 55° in the extreme north of Europe, and about 50° on the west coast of Norway. Rising during day to 102° at Madrid, to above 90° in several other localities in the south of our area, to about 80° in the central countries, and to a little above 70° at some English stations.

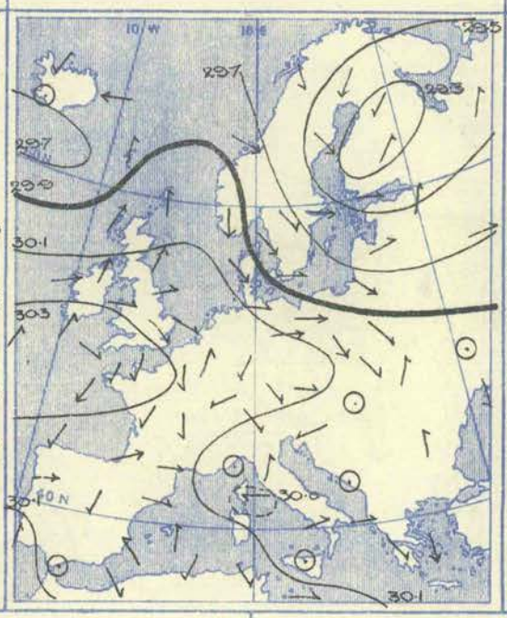
Wind in morning showing a very extensive cyclonic circulation over the north of our area; Westerly current fresh to strong on some of our own coasts, and strong to a gale over southern Scandinavia. A strong breeze from South blowing at Nice, but light variable airs most prevalent in the south of our area. Little change in direction of wind during day, but force decreasing in Norway and Sweden.

Barometer in morning ranging from below 29·1 ins. in a large and well-marked depression centred over the extreme north of Sweden, to above 30·4 ins. in a large anticyclone off the south-west of Ireland. Relatively low in the extreme south-east of our area. Not much change later over Europe as a whole, but a fresh fall of the barometer commencing in Iceland by evening.

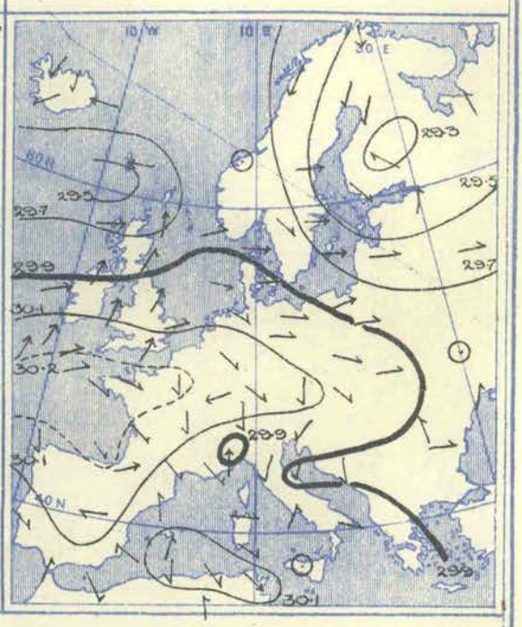
Tuesday, 20th July, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over our area generally, but cloudy or dull in some localities, and rainy in the Hebrides. About 1·8 in. of rain at St. Petersburg during the ensuing twenty-four hours, 1·4 in. at Turin, 0·8 in. at Naples, and smaller quantities in various parts of Scandinavia and the United Kingdom. Day very bright in the south-west, south, and south-east of England.

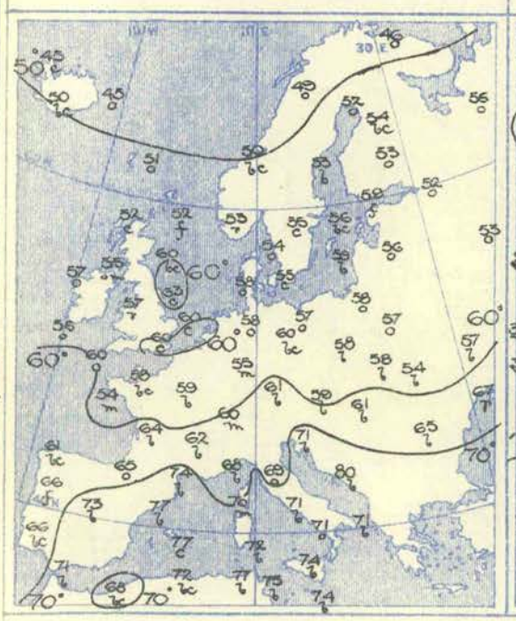
Temperature fallen in most regions. Morning readings ranging from above 80° in Greece and at Barcelona, and above 70° in the far south generally, to about 60° in the south of England and the nearer parts of the Continent, and to about 50° at some stations in the far north of the Continent. Maxima during day rather above 70° in many parts of England, and above 80° at many stations in the south of our area; highest value 93° at Bucharest and Tunis. Thermometer remaining below 70° in Germany and some Austrian localities.

Wind in morning still showing a well-marked cyclonic circulation over the northern countries. A partial cyclonic movement prevailing in the north-west of our area, and light and variable breezes in the south. Cyclonic winds increasing in strength in the north-west of these Islands and in Iceland during day, and a gale from West setting in at Wisby. Backing to South-West over England, and becoming somewhat stronger.

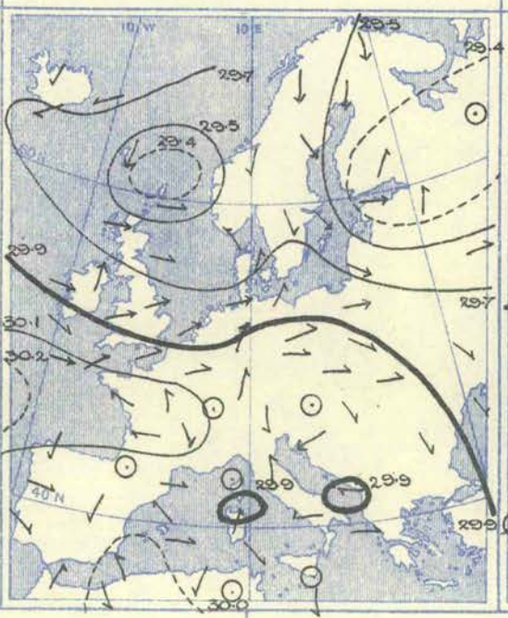
Barometer in morning above 30·3 ins. in an anticyclone over the south-west of these Islands and the surrounding regions; below 29·7 ins. in a depression off the south of Iceland, and below 29·3 ins. in a large disturbance over Finland. North-western depression moving eastwards during day, and barometer falling very decidedly in the north and north-west of these Islands. A recovery of pressure commencing in Iceland by evening. Anticyclonic system decreasing in intensity.

Wednesday, 21st July, 1909.

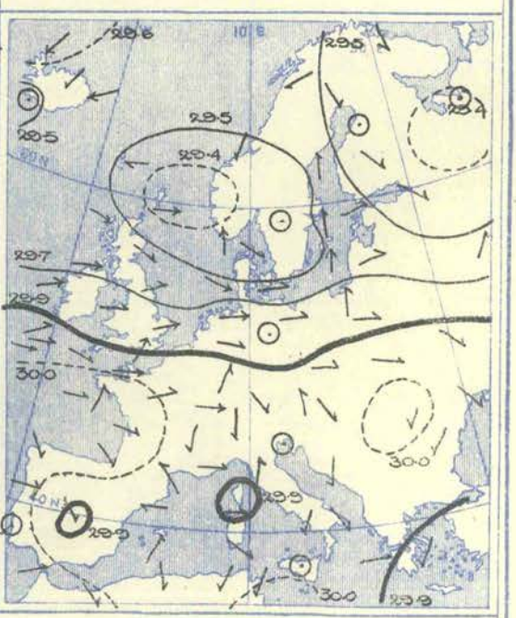
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull in northern Russia, rainy on the eastern shores of the North Sea, and showery in various parts of these Islands. Fair to fine and bright in almost all other regions. More than 1·25 in. of rain later at Gap, and various amounts on the shores of the Baltic. A few slight showers occurring in these Islands.

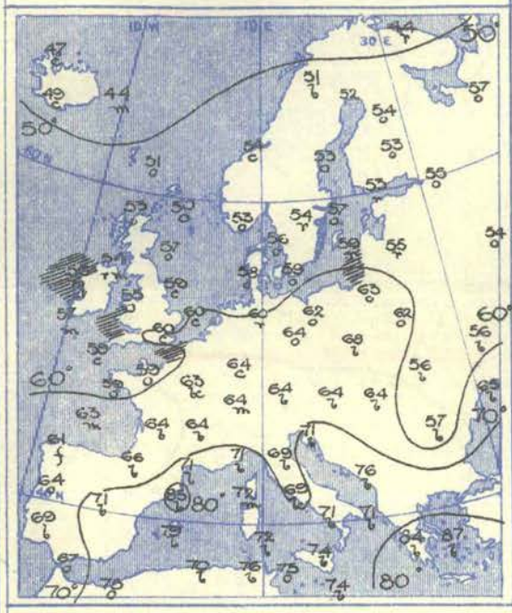
Temperature in morning above 70° at many stations in the far south, and above 75° in some places. About 60° over a very large portion of the Continent and the United Kingdom, but below 55° in the north-east of the Continent, and below 50° in the far north of Norway. Thermometer touching 70° during day in the east of England, but remaining below it over these Islands generally, and also in the Netherlands and in some German localities. Maxima above 80° in the south of our area, 95° at Athens, and 102° at Madrid.

Wind in morning showing complete or partial cyclonic circulations over almost all of our area; Westerly current fresh on parts of our own coast, and that from North-West strong over the Baltic, but little force generally. Light anticyclonic breezes prevailing over most of France and the Bay of Biscay. No change of importance during day.

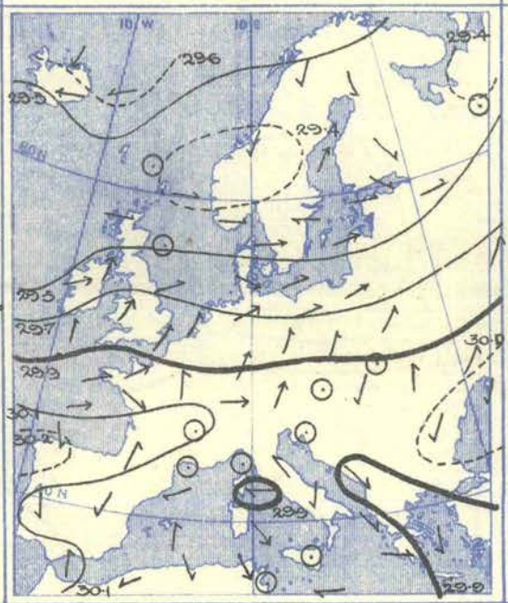
Barometer in morning above 30·1 ins. in an anticyclonic system extending from the Bay of Biscay to the east of France; below 29·9 ins. in two minima over southern Europe, below 29·4 ins. in a well-defined minimum to the northward of Scotland, and also in a very large disturbance over Finland and the north of Russia. No great modification occurring later in day in the general distribution of pressure; some small irregularities appearing over this country, and a large system off the west of Iceland.

Thursday, 22nd July, 1909.

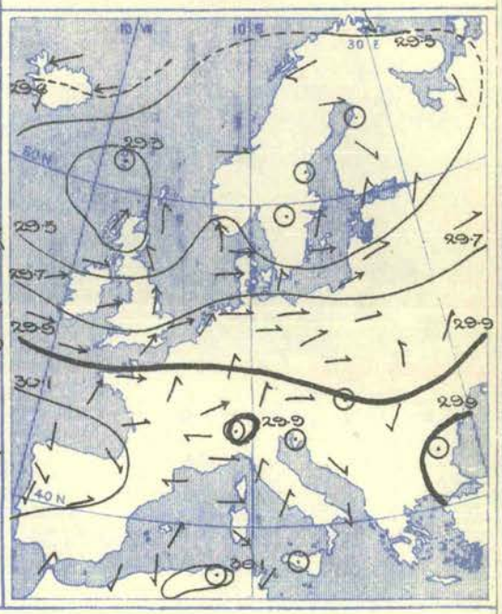
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning very cloudy or overcast at many stations in the north and north-west of our area, with passing showers or steady rain at a few places; generally fair to fine and bright over the northern half of Europe. More than 0·75 in. of rain later at Sumburgh Head, and 0·5 in. at Stornoway, but less than 0·1 in. over these Islands generally, and none over France and the southern countries of Europe.

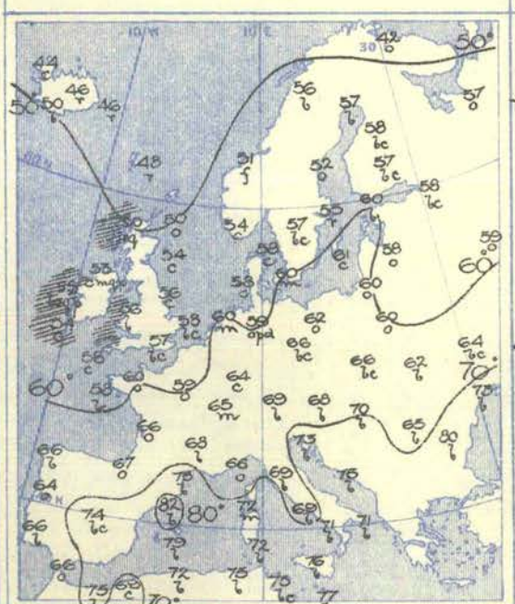
Temperature risen in the central countries. Morning readings about 60° in many parts of England and the Low Countries, about 65° in central Europe, above 70° over a large portion of the Mediterranean area, 85° at Barcelona, and 87° at Athens. Below 55° over much of northern Europe. Thermometer touching 70° at Oban and Clacton-on-Sea during day, but remaining below 65° in several parts of the Kingdom. Maxima above 80° very generally in the south of France, Italy, and the Spanish Peninsula, and as high as 94° at Perpignan.

Wind in morning showing an extensive cyclonic movement over the northern half of our area, and light and somewhat variable breezes in the south. South-Westerly current fresh on some parts of our own coast. No change of importance during day.

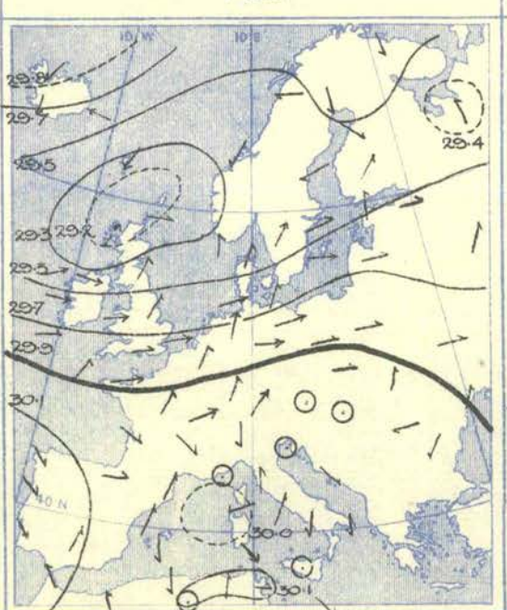
Barometer in morning below 29·4 ins. in a large depression covering a considerable part of Norway and the adjacent portion of the ocean, and relatively low to the north-westward of Ireland. Above 30·2 ins. in the south-west of our area, and above 30·0 ins. over the Black Sea and the south of Russia. A well-marked depression appearing later off the north of Scotland, and some small, shallow secondaries passing over Ireland and England. Pressure beginning to increase again in Iceland, and in the west of Ireland.

Friday, 23rd July, 1909.

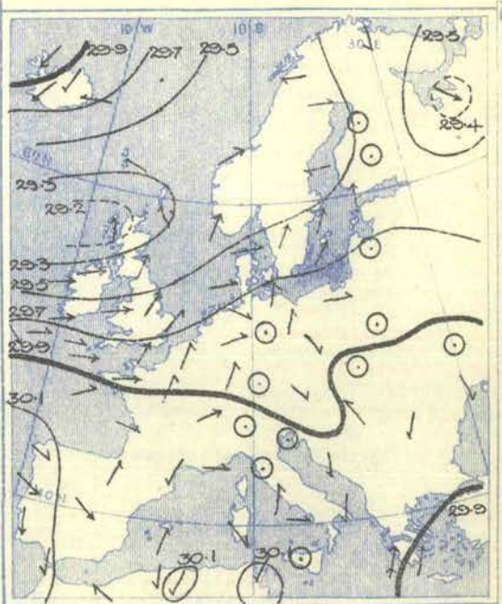
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fair to very fine and bright over the major portion of our area, but overcast in places, with rain at Stockholm, and showers on our extreme north-west coasts. Steady rain or passing showers falling later in many parts of northern Europe and at most of our own stations, measurements about 0·5 in. in some isolated localities, but slight generally.

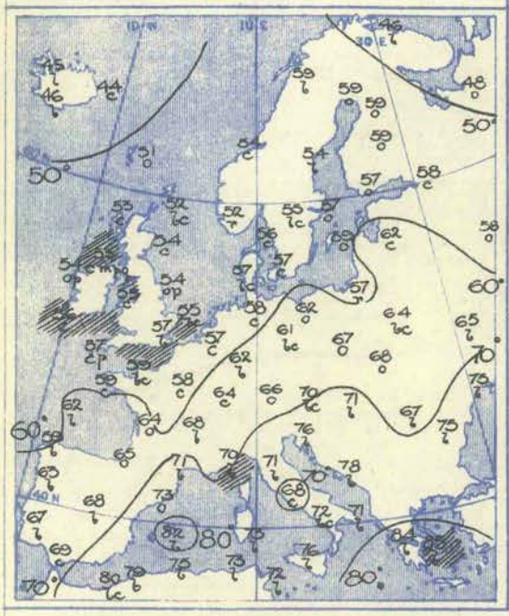
Temperature fallen slightly in the United Kingdom. Readings in morning ranging from 82° at Barcelona, and above 70° in the south generally, to below 60° in these Islands and at nearly all places over the northern half of the Continent, and to below 45° in the extreme north. Maxima during day about 70° at some stations in the east and south-east of England, but below 65° over these Islands generally, and below 70° in North Germany and the Low Countries. Thermometer rising to 89° at Lyons, to between 80° and 90° in the south as a whole, 95° at Bucharest, 97° at Madrid, and to about 100° at Sfax.

Wind in morning Westerly to South-Westerly over these Islands and the greater portion of the Continent, but Easterly to North-Easterly in the far north. Light or moderate generally, but fresh or strong at some of our own stations. Light and rather variable airs prevailing over the Mediterranean. Increasing somewhat in force later over most parts of these Islands, and a gale from South setting in at Patras. Little change elsewhere, but a gale from South-West reported at Karlstad.

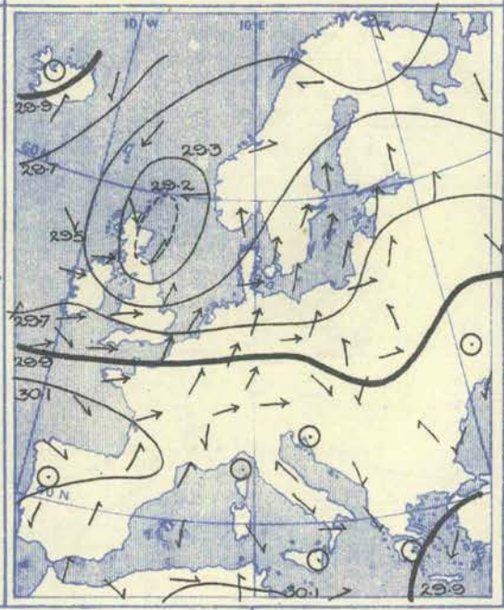
Barometer in morning below 29·2 ins. in a depression centred off the north of Scotland and below 29·4 ins. in a system over the White Sea. Above 30·1 ins. over the western half of the Spanish Peninsula, and above 30·3 ins. in the Azores. Little modification occurring later in the general distribution of pressure; depression over northern Russia remaining stationary, and that off the north of Scotland moving very slightly in a southerly direction.

Saturday, 24th July, 1909.

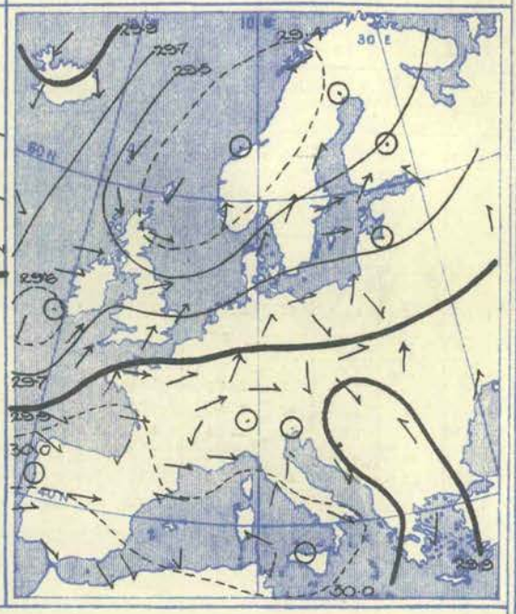
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying greatly, but generally fine and bright over the southern half of our area, and cloudy to overcast, with showers or steady rain in places, in the northern half. About 1·5 in. of rain later at Holyhead, and slighter falls in most other parts of these Islands and also at some stations in the western countries of the Continent and in Poland.

Temperature showing little change. Morning readings ranging from above 80° in Greece and some other southern districts and about 70° in Hungary to below 55° in many parts of these Islands and in the west of Norway, and to below 50° in the extreme north of our area. Maxima during day below 60° in the extreme north and north-west of these Islands, and below 65° at most of our stations, but between 70° and 80° very generally over the central and southern countries of Europe, and above 80° in many places. Thermometer rising to 95° at Madrid and Bucharest, and 99° at Tunis.

Wind in morning circulating cyclonically around Scotland; South-Westerly current, fresh or strong, over Ireland, England, and the North Sea region, but the Northerly and Easterly currents in the north-west and north possessing little force. Light, variable airs prevalent over most of the Mediterranean and in Italy. Wind backing to the Southward and South-Westward later in the west and south of these Islands and increasing again after lulling.

Barometer in morning above 30·1 ins. in the north of Spain and over the adjacent portion of the Bay, and above 29·9 ins. in the north of Iceland; below 29·2 ins. in a depression having its centre over the Moray Firth. North Sea depression moving north-eastward later, but another system approaching the south-west of this country from the Atlantic, and barometer beginning to fall briskly.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second). *See* also p. 236.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	July 19th, 5.7 a.m. to 7.26 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 92% 270°, 5	282° 90% 272°, 7	281° 90% 273°, 10	278° 83% 280°, 12	275° 70% 274°, 17			277° 36% —, 18	1,860	Overcast to fair. Gentle breeze. Clouds, Fracto-Cu. 6. Temp. inversion at 1,680 m., and fall in humidity.
2	July 20th, 3.22 p.m. to 5.24 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	288° 88% 250°, 5	287° 90% 250°, 6	287° 92% 250°, 7	283° 97% 245°, 13	281° 90% 244°, 16	276° 95% 256°, 17		275° 100% 260°, 17	2,330	Overcast to fair. Gentle breeze. Clouds, Cu.-N. and S.-Cu. 10. One kite.
3	July 21st, 9.50 a.m. to 10.43 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	289° 85% 250°, 8	288° 90% 250°, 12	286° 95% 250°, 14	285·5° 100% 250°, 17				285·5° 100% 250°, 17	1,060	Overcast. Wind very irregular. Clouds at 650 m.
4	July 21st, 3.51 p.m. to 5.33 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 82% 256°, 5	286° 84% 274°, 6	285° 85% 268°, 7	279° 88% 270°, 11	275° 92% 268°, 15	270° 92% 268°, 15		269° 92% 270°, 19	2,210	Overcast and dull. Moderate breeze, with squalls. Clouds, Cu.-N. 10. One kite.
5	July 22nd, 9.55 a.m. to 10.51 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	289·5° 70% 240°, 8	288·5° 70% 240°, 12	286·5° 85% 250°, 14	283·5° 100% 260°, 15				283° 100% 260°, 17	1,150	Overcast, clear at 12.30 p.m. Clouds at 900 m. Wind irregular.
6	July 22nd, 10.35 a.m. to 12.6 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 88% 220°, 3	285° 88% 220°, 5	284° 90% 220°, 7	279° 87% 232°, 12	276° 75% 240°, 14			272° 85% 240°, 15	2,000	Overcast and dull. A little rain. Gentle breeze. Clouds, Cu.-N. and N. 10. One kite.
7	July 23rd, 9.50 a.m. to 10.19 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	290·5° 70% 245°, 8		288° 80% 245°, 14	284° 80% 260°, 15				283·5° 80% 270°, 16	1,200	In clear interval between two showers. Drawn in rapidly to avoid thunder shower.
8	July 23rd, 7.58 p.m. to 8.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind ..	281° 87% 212°, 6	280° 85% 242°, —	279° 85% 260°, —	276° 87% 274°, —				274° 88% 284°, —	1,440	Stormy. Hail, rain and sunshine at intervals. Moderate breeze, with very strong gusts. Clouds, Cu.-N. and Cu. 3–6.
9	July 24th, 9.47 a.m. to 10.9 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	289° 70% 245°, 11		285° 85% 250°, 17	280° 100% 260°, 19				280° 100% 260, 20	1,050	Clouds at 900 m. Very strong wind. Cloud shadows 20 m. per s.
10	July 24th, 11.7 a.m. to 11.22 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282° 98% 230°, 9	—° —% 236°, —	—° —% 250°, —	—° —% 253°, —						Dull and wet. Stormy. Strong breeze, with gusts. Clouds, N. and Cu.-N. 10, about 580 m. Great increase in wind velocity with altitude. Kite blown off the wire and not yet recovered.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10
No. of Kites	1	1	1	1	1	1	1	1	1	1
Area of Surface (sq. metres) ..	7·5	7·5	7	7·5	7	7·5	7	8	4	8
Length of Wire (metres)	2,400	4,000	1,100	3,900	1,350	3,000	1,500	1,800	1,050	?

63, Victoria Street, London, S.W. *July 28th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 30. THIRTIETH WEEK, SUNDAY JULY 25TH TO SATURDAY JULY 31ST, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was again extremely unsettled, especially in the earlier half of the week, when heavy falls of rain were experienced over nearly the whole of Great Britain. Thunderstorms or thunder only occurred over North Britain on Sunday, and in several parts of England on Monday. Earthquake shocks were observed at Laudale on Wednesday and Thursday.

Temperature was below the average, the deficit ranging from a little more than 1° in the English Channel district to more than 3° in Scotland E. The highest readings occurred as a rule on Friday or Saturday, when the thermometer rose a trifle above 70° in many parts of England, as well as in the west of Scotland and the north of Ireland. The lowest readings were observed on the early morning either of Wednesday or Thursday. In the south-east of England the sheltered thermometer did not fall much below 50°, but at several places situated in the western and northern parts of the Kingdom it went slightly below 40°. Owing to the cloudy state of the sky the minimum readings on the grass were, as a rule, not very much lower than those in the screen, but at Crathes the thermometer on the 27th fell to 31°.

Mean Temperature of the Sea.—On most parts of the British coasts the water was colder than in the corresponding week of last year, but at some of the Irish stations it was a trifle warmer. The mean values for the week ranged from between 60° and 61° at the Channel stations to about 54° on the north-east coast of Great Britain and to 51° at Wick and Lerwick.

Rainfall was considerably in excess of the average over the United Kingdom generally, but agreed very closely with the normal in Ireland S. and the English Channel, and was rather deficient in Scotland N. The heaviest rainstorms of the week occurred respectively in the south and east of Scotland on Sunday, and over England and Wales on Tuesday, amounts exceeding an inch being recorded on each day at a large number of stations. On Sunday the principal falls reported were 2·0 inches at Stonehaven and 1·7 inch at Crathes; and on Tuesday the largest amounts were 1·8 inch at Plymouth and 1·5 inch at Tavistock and Shaftesbury.

Bright Sunshine amounted to less than the average in all districts excepting Scotland N. and Ireland N. where there was a slight excess. The percentage of the possible duration ranged from 41 in the English Channel and 33 in England E. and S.W. to 25 in Ireland S., and 21 in Scotland E.

Barometer and Wind.—In the earlier half of the week two well-marked cyclonic disturbances advanced over the United Kingdom from the Atlantic, and occasioned considerable variability both in the direction and force of the winds. The first depression arrived off the mouth of the St. George's Channel on Sunday morning, and afterwards travelled north-eastwards to the North Sea, and eventually on to Scandinavia. The second appeared off our south-west coasts early on Tuesday, and after remaining almost stationary for several hours moved somewhat briskly eastwards across England in the course of the ensuing night, the wind in its rear blowing freshly from North-West or North over nearly the whole country. On Thursday and Friday the barometer was high to the southward, and low to the northward of these islands, and the resulting winds from West or South-West were strong in force on many parts of our western and southern coasts. At the close of the week, when a small shallow depression appeared over Ireland, the wind in all our more northern districts was either calm or light from the Eastward or North-Eastward.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 244.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Moderate	Very heavy	Heavy	Heavy	Very heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Moderate	Moderate
	Sunshine ...	Abundant	Scanty	Scanty	Moderate	Moderate	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 8 weeks from June 6th, 1909.	Warmth ...	0 * 5	0 * 6	0 * 6	0 * 6	0 * 5	0 * 7	0 * 5	0 * 5	0 * 6	0 * 4	0 * 4	0 * 7
	Rainfall ...	2 * 3	2 * 4	3 * 4	3 * 2	3 * 2	3 * 2	3 * 2	4 * 2	3 * 3	1 * 2	1 * 4	2 * 4
	Sunshine ...	2 * 2	3 * 2	0 * 6	1 * 5	1 * 5	1 * 5	1 * 3	1 * 4	2 * 3	0 * 3	1 * 3	2 * 3

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5

8053 450 Wy. & S. Ltd. 8—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTIETH WEEK—July 25th to July 31st, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	68	40	59·4	47·7	53·2	- 1·9	78	- 14	0	0	5	+ 1	0·67	-0·12	31	+ 4	27	+ 4
Eastern																		
1. SCOTLAND, EAST	68	38	61·1	47·1	53·6	- 3·2	81	- 23	0	0	6	+ 2	1·47	+0·81	24	- 11	21	- 9
2. ENGLAND, N.E.	71	43	63·6	50·9	56·8	- 1·9	104	- 13	0	0	6	+ 2	1·19	+0·53	29	- 11	26	-10
3. ENGLAND, EAST	73	45	66·5	51·8	58·6	- 2·1	116	- 15	0	0	5	+ 1	1·28	+0·71	37	- 7	33	- 6
4. MIDLAND COUNTIES	73	43	65·2	51·5	57·9	- 2·1	111	- 15	0	0	6	+ 2	1·47	+0·85	35	- 4	31	- 4
5. ENGLAND, S.E.	72	47	65·6	54·2	59·5	- 2·1	123	- 14	0	0	5	+ 2	1·04	+0·48	35	- 10	32	- 9
Western																		
6. SCOTLAND, WEST	71	37	62·1	48·5	54·8	- 2·6	90	- 18	0	0	4	0	1·31	+0·53	32	- 5	29	- 4
7. ENGLAND, N.W.	70	41	62·9	51·9	57·0	- 2·0	105	- 14	0	0	6	+ 2	1·51	+0·73	32	- 5	30	- 4
8. ENGLAND, S.W.	71	45	63·5	53·7	58·3	- 1·7	114	- 12	0	0	6	+ 3	1·54	+0·78	36	- 5	33	- 5
9. IRELAND, NORTH	67	37	61·0	49·5	54·8	- 2·7	90	- 18	0	0	6	+ 2	0·82	+0·04	31	+ 2	28	+ 1
10. IRELAND, SOUTH	71	41	63·3	51·1	56·8	- 2·4	104	- 17	0	0	6	+ 3	0·73	-0·01	28	- 6	25	- 6
11. ENGLISH CHANNEL	71	52	64·5	56·6	60·3	- 1·3	128	- 9	0	0	5	+ 2	0·54	-0·02	44	- 8	41	- 8

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 8 Weeks, June 6th to July 31st, 1909.

0. SCOTLAND, NORTH	71	35	*	*	*	*	587	- 79	0	- 2	36	+ 4	5·36	-0·39	236	- 25	24	- 3
Eastern																		
1. SCOTLAND, EAST	75	31	*	*	*	*	644	-109	0	- 1	30	+ 2	4·77	0·00	300	- 16	31	- 2
2. ENGLAND, N.E.	73	33	*	*	*	*	746	- 96	0	0	30	+ 5	5·03	+1·18	260	- 91	28	-10
3. ENGLAND, EAST	77	35	*	*	*	*	823	-125	0	0	31	+ 7	4·88	+0·92	306	- 78	34	- 9
4. MIDLAND COUNTIES	77	33	*	*	*	*	786	-144	0	0	31	+ 7	5·35	+1·28	265	- 79	29	- 9
5. ENGLAND, S.E.	75	35	*	*	*	*	840	-154	0	0	29	+ 7	4·60	+0·88	309	- 84	34	- 9
Western																		
6. SCOTLAND, WEST	74	32	*	*	*	*	697	-107	0	0	30	+ 1	7·52	+1·62	325	- 10	35	- 1
7. ENGLAND, N.W.	74	32	*	*	*	*	745	-132	0	0	33	+ 6	6·39	+1·60	293	- 56	32	- 6
8. ENGLAND, SW.	75	30	*	*	*	*	803	-122	0	0	31	+ 5	5·12	+0·35	344	- 29	38	- 3
9. IRELAND, NORTH	75	33	*	*	*	*	715	- 93	0	0	35	+ 2	5·10	-0·30	246	- 37	26	- 4
10. IRELAND, SOUTH	76	36	*	*	*	*	822	- 73	0	0	30	+ 2	4·31	-0·78	270	- 44	30	- 5
11. ENGLISH CHANNEL	71	42	*	*	*	*	897	- 91	0	0	23	- 3	2·62	-1·14	435	- 14	49	- 2

THE YEAR.—Aggregates, &c., for the Period of 30 Weeks, January 3rd to July 31st, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1016	- 98	535	- 22	139	+ 3	21·79	-4·80	733	- 22	26	- 1
Eastern																		
1. SCOTLAND, EAST	75	1	*	*	*	*	1122	-162	673	+ 53	117	+ 5	19·03	+3·00	844	- 40	31	- 1
2. ENGLAND, N.E.	81	14	*	*	*	*	1344	- 50	580	+105	104	+ 2	14·38	+2·05	917	- 35	34	- 1
3. ENGLAND, EAST	82	12	*	*	*	*	1492	-147	554	+ 33	106	+ 7	13·01	+0·73	1070	+ 51	39	+ 2
4. MIDLAND COUNTIES	82	8	*	*	*	*	1506	-143	642	+109	99	+ 1	14·16	+0·38	951	+ 40	35	+ 1
5. ENGLAND, S.E.	82	0	*	*	*	*	1542	-219	482	+101	100	+ 7	14·50	+1·17	1126	+102	41	+ 4
Western																		
6. SCOTLAND, WEST	74	11	*	*	*	*	1284	-112	445	+ 20	113	- 5	25·04	+1·32	930	+ 23	34	+ 1
7. ENGLAND, N.W.	79	10	*	*	*	*	1382	-119	466	+ 80	110	+ 2	18·32	+1·24	1013	+ 93	37	+ 3
8. ENGLAND, S.W.	81	7	*	*	*	*	1488	-202	390	+ 89	109	+ 3	17·63	-1·22	1090	+ 81	40	+ 3
9 IRELAND, NORTH	75	14	*	*	*	*	1387	- 81	315	- 30	134	+ 6	19·13	-0·23	821	- 22	30	- 1
10. IRELAND, SOUTH	76	15	*	*	*	*	1647	- 67	265	+ 6	124	+10	19·80	-0·81	930	- 6	34	0
11. ENGLISH CHANNEL	78	25	*	*	*	*	1859	- 48	151	+ 42	101	-12	14·68	-1·00	1299	+ 86	48	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℜ is supplied by the Royal Meteorological Society, and that for Stations marked S are in connexion with one or other of the Societies, as well as with the Meteorological Office. is supplied by the Scottish Meteorological Society. Stations marked M or

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts.	Names of Stations.	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week: Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N. a, Islands.	*p Balta Sound* S	*57*	*31st*	*45*	*28th*	*55·8*	*47·5*	*51·1*	—	*64*	*0*	*6*	*0·26*	—	*18·0*	—	*15*	—	*Balta Sound.*
	a Sumburgh Head ..	57	25th	43	28th	54·4	46·0	49·9	- 2·6	55	0	3	0·24	- 0·33	37·5	+ 7·1	32	+ 6	Deerness.
	a Stornoway	61	31st	46	27th	58·7	48·9	53·5	- 1·0	81	0	5	0·24	- 0·51	34·4	+ 3·0	29	+ 3	Stornoway.
	a Castlebay, Barra Isd.	*60*	*31st*	*48*	*28th*	*58·0*	*50·0*	*53·7*	*- 3·0*	*82*	*0*	*3*	*0·50*	—	*49·0*	—	*42*	—	*Castlebay.*
b, Mainland.	a Wick	62	26th, 31st	40	28th	59·7	45·3	52·0	- 2·6	70	0	5	0·21	- 0·42	*	*	*	*	* *
	p Strathpeffer	68	30th	48	25th, 27th	62·8	49·5	55·7	- 0·4	96	0	5	0·53	- 0·10	37·3	+ 8·7	32	+ 8	Strathpeffer.
	p Glencarron .. 𝔖	62	31st	46	25th	58·2	47·3	52·4	- 1·7	73	0	7	0·86	- 0·48	*	*	*	*	* *
	p Fort Augustus 𝔖	63	30th	47	30th	60·5	48·7	54·2	- 2·1	85	0	7	1·87	+ 1·17	16·4	- 5·5	14	- 5	Fort Augustus.
	p Fort William 𝔖	66	31st	47	25th, 29th	61·5	48·3	54·4	- 2·1	87	0	6	0·73	- 0·52	*	*	*	*	* *
1. SCOTLAND, E. ..	p Gordon Castle 𝔖	64	30th	44	27th	61·4	47·4	53·9	- 2·8	83	0	5	0·59	- 0·21	*24·0*	—	*21*	—	*Gordon Castle.*
	a Nairn	66	28th	46	27th	61·7	47·3	54·0	- 2·6	84	0	7	1·87	+ 1·30	31·0	—	27	—	Nairn.
	a Aberdeen	63	30th	45	27th	60·6	49·4	54·6	- 1·9	88	0	7	1·96	+ 1·32	22·3	- 13·7	19	- 12	Aberdeen.
	a Balmoral .. 𝔖	62	27th	38	27th	59·9	42·6	50·7	- 3·4	61	0	7	1·70	+ 1·00	14·4	—	12	—	Crathes S.
	p Crieff .. .. 𝔖	68	30th	43	27th	64·1	47·0	55·0	- 2·8	91	0	4	1·52	+ 0·77	21·1	—	18	—	Balruddery
	a Leith	66	30th	48	27th	61·7	50·3	55·6	- 2·8	95	0	4	1·61	+ 0·97	31·9	- 0·7	28	- 1	Edinburgh.
	a West Linton .. S	62	30th, 31st	40	27th, 28th	58·5	44·7	51·1	- 4·3	64	0	5	1·20	—	*34·5*	—	*30*	—	*West Linton.*
	p Marchmont .. 𝔖	66	31st	43	27th	61·0	47·9	54·0	- 2·5	84	0	6	1·30	+ 0·53	24·6	- 12·4	22	- 11	Marchmont.
2. ENGLAND, N.E. a, North.	a Alnwick Castle ..	65	29th	45	27th	62·1	49·0	55·1	- 2·1	92	0	5	1·01	+ 0·36	33·0	—	29	—	Cockle Park.
	a Shields	67	29th, 30th	46	27th	62·4	49·4	55·5	- 2·2	95	0	7	1·36	+ 0·76					*Newcastle.*
	p Durham	65	29th	46	27th	62·3	50·0	55·7	- 3·0	96	0	5	0·35	- 0·31	22·8	- 14·1	20	- 13	Durham.
	p Rounton .. 𝔐	66	29th, 30th	43	27th	63·2	49·6	55·9	- 1·7	97	0	6	0·58	- 0·06	*	*	*	*	* *
	p Scarborough .. M	69	29th	49	27th	64·1	51·6	57·4	- 1·3	108	0	6	0·91	+ 0·34	22·5	—	20	—	Scarborough.
	p York	67	28th, 30th	50	27th	63·6	52·0	57·4	- 2·5	108	0	6	1·19	+ 0·61	17·5	- 21·5	16	- 19	York.
b, South.	a Spurn Head	69	27th	51	26th	62·4	53·0	57·4	- 2·2	108	0	6	1·89	+ 1·49	*	*	*	*	* *
	a Lincoln	71	31st	48	27th	66·7	51·6	58·6	- 2·1	116	0	5	1·90	+ 1·39	38·6	—	35	—	Skegness.
	a Fulbeck	69	31st	49	27th	65·7	51·5	58·1	- 2·3	113	0	6	1·51	+ 0·95	36·6	—	33	—	Rauceby.
																—		—	*Lowestoft.*
3. ENGLAND, E. a, North.	p Cromer	71	31st	48	28th	66·3	50·8	58·0	- 2·4	112	0	6	1·47	—	35·6	—	32	—	Cromer.
	p Hillington .. 𝔐	71	31st	45	27th	65·6	49·5	57·0	- 3·6	105	0	7	1·80	+ 1·18	31·9	- 12·6	29	- 12	Hillington.
	a Yarmouth	71	31st	48	27th	66·6	52·0	58·8	- 1·7	118	0	5	1·09	+ 0·54	44·9	—	41	—	Yarmouth.
	a Norwich	70	31st	48	27th	66·6	51·2	58·4	- 2·2	115	0	7	1·38	—	*	*	*	*	* *
	p Geldeston	71	31st	47	27th	66·8	51·0	58·4	- 2 0	115	0	5	0·93	+ 0·41	35·8	- 11·7	33	- 11	Geldeston.
b, South.	p Cambridge	72	31st	47	27th	67·2	50·7	58·4	- 3·3	115	0	4	0·90	+ 0·37	41·9	- 4·7	38	- 4	Cambridge.
	a Felixstowe	*67*	*31st*	*50*	*27th*	*62·7*	*54·0*	*58·1*	*- 3·6*	*113*	*0*	*5*	*1·93*	—	*37·6*	—	*34*	—	*Felixstowe.*
	a Clacton-on-Sea ..	71	31st	52	27th	66·4	54·6	60·1	- 1·6	127	0	4	1·61	—	33·1	—	30	—	Clacton.
	a Rothamsted ..	69	31st	46	27th	65·3	51·6	58·0	- 2·4	112	0	6	0·88	+ 0·32	36·4	- 12·3	33	- 11	Rothamsted.
	a Shoeburyness ..	*72*	*31st*	*52*	*27th*	*67·0*	*54·9*	*60·5*	*- 2·7*	*130*	*0*	*4*	*1·13*	*+ 0·74*	*36·1*	—	*33*	—	*Southend.*
	p Tottenham	73	31st	51	27th	67·3	54·9	60·7	- 2·6	131	0	5	1·49	—	34·2	—	31	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	a Harrogate	65	28th	48	27th	62·2	49·9	55·6	- 1·9	95	0	6	1·43	+ 0·88	27·8	—	25	—	Harrogate.
	a Bawtry	69	27th	49	27th	65·9	51·6	58·3	- 1·9	114	0	6	2·06	+ 1·53	28·7	- 8·0	26	- 7	Worksop.
	p Buxton .. M	*65*	*31st*	*47*	*26th*	*60·9*	*49·5*	*54·8*	*- 2·1*	*90*	*0*	*7*	*2·20*	*+ 1·29*	*36·6*	—	*33*	—	*Buxton.*
	a Nottingham ..	69	31st	44	27th	65·6	50·9	57·7	- 2·9	110	0	7	1·61	+ 1·08	38·9	—	35	—	Nottingham.
	p Birmingham, Edgbsn	68	31st	48	27th	64·0	51·4	57·3	- 2·6	107	0	6	1·69	+ 1·17	36·3	—	33	—	Birmingham.
	a Raunds .. 𝔐	73	31st	45	27th	67·9	50·5	58·6	- 2·6	116	0	4	0·91	—	*	*	*	*	* *
	a Oxford	69	28th	49	27th	65·7	53·4	59·1	- 2·4	120	0	6	1·14	+ 0·61	36·2	- 9·1	33	- 8	Oxford.
b, West.	a Cheadle .. 𝔐	65	30th	47	26th, 27th	62·1	48·5	54·8	- 3·4	90	0	7	2·11	+ 1·45		—		—	Sheffield.
	p Shrewsbury	70	26th, 31st	47	27th	66·8	52·0	58·9	- 0·6	118	0	7	1·27	—	*	*	*	*	* *
	a Hereford .. 𝔐	70	31st	48	27th	67·1	52·8	59·5	- 0·9	123	0	5	1·42	+ 0·91	*	*	*	*	* *
	a Cirencester	68	30th	43	27th	64·7	50·8	57·3	- 2·1	107	0	7	1·25	+ 0·65	36·0	- 8·6	33	- 8	Cirencester.
	a Bath	68	28th, 31st	48	27th	65·6	54·4	59·6	- 1·3	122	0	7	1·26	+ 0·66	38·7	—	36	—	Bath.
															33·2	—	*31*	—	*Ramsgate.*
5. ENGLAND, S.E. ..	p Kew	72	31st	49	27th	67·3	54·8	60·6	- 1·4	130	0	5	1·17	+ 0·65	37·3	- 9·3	34	- 9	Kew.
	a Marlborough ..	69	28th	47	27th	64·4	52·2	57·9	- 1·7	111	0	7	1·13	+ 0·59	34·8	- 7·7	32	- 7	Marlborough.
	a Margate	72	31st	50	27th	66·2	53·9	59·6	- 2·4	123	0	4	1·04	+ 0·59	26·6	- 20·4	24	- 19	Margate.
	a Wisley, Surrey ..	72	31st	50	27th	66·5	54·2	59·9	- 2·6	125	0	4	0·90	—	40·7	—	37	—	Wisley.
	a Swarraton .. 𝔐	70	31st	47	27th	64·9	52·9	58·5	- 1·4	116	0	5	1·32	+ 0·78	40·5	—	38	—	Worthing.
	a Tunbridge Wells 𝔐	71	31st	47	27th	65·7	51·6	58·2	- 2·6	113	0	5	1·11	+ 0·61	31·9	- 15·3	29	- 14	Tunbridge Wells.
	a Dungeness	69	28th	54	30th	64·7	56·0	60·1	- 1·2	127	0	5	0·76	+ 0·36	29·3	—	27	—	Littlestone.
	p Hastings	69	28th	52	27th	64·9	55·4	59·8	- 1·4	125	0	5	0·64	+ 0·14	*31·4*	*- 22·3*	*29*	*- 21*	*Hastings.*
	p Southampton ..	72	31st	50	27th	67·2	54·8	60·6	- 2·4	130	0	3	1·30	+ 0·75	36·8	- 13·3	34	- 12	Southampton.
	a Ventnor	69	28th	55	26th, 27th	64·2	56·6	60·1	- 2·1	127	0	4	1·06	+ 0·59	32·2	- 17·3	30	- 16	Ventnor.
															36·4	- 16·6	34	- 15	Eastbourne.
LONDON ..	*a Westminster* ..	*73*	*31st*	*51*	*27th*	*67·3*	*55·1*	*60·8*	*- 1·4*	*132*	*0*	*5*	*1·23*	*+ 0·72*	*33·9*	*- 6·8*	*31*	*- 6*	*Westminster.*
	a Greenwich	*76*	*31st*	*47*	*27th*	*69·4*	*53·6*	*61·0*	*- 2·3*	*133*	*0*	*6*	*1·31*	*+ 0·78*	*34·4*	*- 18·7*	*32*	*- 17*	*Greenwich.*
6. a, SCOTLAND. W. ..	p Laudale	68	31st	43	28th	61·6	47·4	54·0	- 2·8	84	0	4	1·07	- 0·10	*	*	*	*	* *
	a Poltalloch .. 𝔖	65	31st	39	28th	61·4	47·7	54·1	- 3·4	85	0	5	1·08	+ 0·12	*	*	*	*	* *
	p Glasgow	65	31st	46	28th	61·3	48·7	54·6	- 2·7	88	0	4	1·52	+ 0·77	33·7	+ 2·4	30	+ 2	Glasgow.
	p Rothesay .. 𝔖	68	31st	44	25th	63·1	48·9	55·5	- 1·8	95	0	4	0·92	- 0·05	*	*	*	*	* *
	a Kilmarnock	64	30th	37	28th	61·4	48·0	54·2	- 3·4	85	0	6	1·32	—	*33·1*	—	*29*	—	*Kilmarnock.*
	a Colmonell .. 𝔖	67	31st	44	27th	62·6	49·0	55·3	- 1·9	93	0	3	1·74	+ 0 95	*	*	*	*	* *
	p Dumfries .. 𝔖	66	29th	45	27th, 28th	61·7	49·4	55·1	- 3·5	92	0	3	1·30	+ 0·51	*37·9*	—	*34*	—	*Dumfries*
	p Cally, Gatehouse 𝔖	71	31st	41	28th	64·7	47·9	55·7	- 1·9	96	0	5	0·86	- 0·04	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas	63	30th, 31st	47	27th	60·7	49·7	54·8	- 2·5	90	0	6	2·01	+ 1·26	31·1	- 12·3	28	- 11	Douglas.
															35·5	—	32	—	Hoylake.
7. a, ENGLAND, N.W. ...	p Aspatria	69	31st	41	29th	62·8	48·6	55·2	- 1·6	92	0	4	1·21	+ 0·31	39·9	—	35	—	Aspatria.
	p Newton Rigg ..	65	28th, 31st	45	28th	63·0	49·0	55·5	- 1·2	95	0	5	1·01	+ 0·29	33·4	- 5·2	30	- 5	Newton Rigg.
	p Stonyhurst	63	25th, 26th	49	26th	61·1	51·3	55·9	- 2·0	97	0	7	2·38	+ 1·45	27·8	- 10·8	25	- 10	Stonyhurst.
	p Blackpool .. M	64	25th	52	25, 28, 29th	62·1	52·9	57·2	- 2·0	106	0	6	? 1·56	+ 0·89	35·5	- 5·4	32	- 5	Blackpool.
	p M'nch'ster, Prestwich	64	25, 28, 30th	50	27th, 28th	62·6	51·5	56·7	- 2·2	103	0	6	3 05	+ 2 28	*31·1*	*- 4·3*	*28*	*- 4*	*Prestwich.*
	a Liverpool (Bidston)	65	31st	53	25, 26, 27, 29	62·6	53·6	57·8	- 2·1	111	0	6	1·29	+ 0·67	*35·3*	—	*32*	—	*Liverpool.*
	a Hawarden Bridge ..	68	31st	52	28th	64·4	53·5	58·6	- 1·6	116	0	4	0·84	+ 0·31	*34·3*	*- 9·6*	*31*	*- 9*	*Southport.*
															36·7	—	*33*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	68	30th	52	25th, 28th	63·7	53·6	58·3	- 1·6	114	0	6	1·32	+ 0·78	35·1	- 5·7	32	- 5	Llandudno.
	a Holyhead	65	30th	51	28th	61·9	52·4	56·8	- 1·7	104	0	6	1·24	+ 0·64	24·2	—	22	—	Aberdovey.
	p Bettws-y-Coed ..	70	31st	49	28th	64·9	52·6	58·3	- 0·8	114	0	7	1·21	—	33·7	—	30	—	Bettws-y-Coed.
															26 0	—	24	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	66	30th	46	28th	62·7	50·5	56·2	- 1·9	99	0	7	1·73	—	31·9	—	29	—	Llangammarch Wells.
	a Pembroke	61	31st	50	26th	59·4	53·3	56·1	- 2·3	99	0	5	1·28	+ 0·70	36·7	- 8·7	34	- 8	Pembroke.
	a Cardiff	66	28th	48	27th	63·5	53·0	57·9	- 3·1	111	0	7	1·15	+ 0·37	*37·9*	—	*35*	—	*Cardiff.*
															37·9	*- 8·1*	*35*	*- 7*	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton	69	28th	50	29th	65·2	54·6	59·5	- 2·4	123	0	7	1·19	+ 0·52	*35·0*	—	*32*	—	*Clifton.*
	a Shaftesbury .. 𝔐	69	31st	48	25th, 27th	63·3	51·8	57·2	- 2·6	106	0	4	2·40	+ 1·79	*	*	*	*	* *
	a Arlington	64	29th	50	26th, 27th	61·9	53·1	57·2	- 1·1	106	0	7	1·20	+ 0·24	42·8	- 5·5	40	- 5	Newquay.
	a Cullompton .. 𝔐	71	31st	45	27th	66·9	54·1	60·1	- 0·4	127	0	6	1·61	+ 0·95	30·1	- 11·9	28	- 11	Cullompton.
	a Portland Bill ..	65	28th	54	26th	61·4	56·7	58·9	- 1·6	118	0	3	0·95	—	*37·6*	—	*35*	—	*Weymouth.*
	p Plymouth	70	29th	51	28th	66·0	54·6	59·9	- 1·3	125	0	5	2·54	+ 1·88	40·1	- 7·1	37	- 7	Plymouth.
	p Falmouth	70	31st	52	26th, 27th	64·9	55·2	59·7	- 0·5	124	0	5	1·31	+ 0·64	47·5	- 3·5	44	- 3	Falmouth.
															43·6	*- 5·7*	*40*	*- 5*	*Torquay.*
9. IRELAND, N. a, West.	a Malin Head	61	30th, 31st	49	27th	58·9	51·0	54·7	- 1·7	89	0	4	0·57	- 0·11	*	*	*	*	* *
	a Blacksod Point ..	62	31st	46	28th	60·3	51·4	55·5	- 2·2	95	0	6	1·04	+ 0·28	*	*	*	*	* *
	p Markree Castle ..	64	27th, 31st	37	28th	61·2	46·5	53·3	- 3·6	79	0	5	0·95	+ 0·15	35·3	+ 6·6	32	+ 6	Markree Castle.
	a Birr Castle	67	31st	42	28th	62·9	49·6	55·8	- 2·8	97	0	6	0·55	- 0·15	*24·0*	*- 7·0*	*22*	*- 6*	*Birr Castle.*
b, East.	p Armagh	66	30th	41	28th	62·7	48·1	54·9	- 3·0	90	0	6	0·82	+ 0·09	27·5	- 3·6	25	- 3	Armagh.
	a Donaghadee	63	29th, 30th	47	27th	59·6	50·3	54·6	- 3·2	88	0	6	1·00	+ 0·31	*	*	*	*	* *
10. IRELAND, S. a, East.	p Dublin, City	67	30th	45	28th	62·2	51·3	56·4	- 3·9	101	0	7	1·29	+ 0·60	27·6	- 9·4	25	- 8	Phœnix Park.
	a Kilkenny	67	30th, 31st	41	27th	63·4	49·3	55·9	- 2·7	97	0	7	0·55	- 0·10	*	*	*	*	* *
	a Waterford	70	31st	45	27th	64·4	48·9	56·1	- 3·6	99	0	5	0·81	+ 0·03	*	*	*	*	* *
b, West.	a Birr Castle	67	31st	42	28th	62·9	49·6	55·8	- 2·8	97	0	6	0·55	- 0·15	24·0	- 7·0	22	- 6	Birr Castle.
	a Foynes	64	27th	46	27th	62·3	52·1	56·8	- 2·0	104	0	6	0·81	+ 0·06	*	*	*	*	* *
	a Cahir .. .. 𝔐	67	29th, 30th	42	28th	63·1	51·1	56·7	- 2·2	103	0	7	0·72	—	*	*	*	*	* *
	a Killarney	71	31st	47	27th, 28th	66·1	52·2	58·7	+ 0·2	117	0	5	0·76	- 0·06	*	*	*	*	* *
	a Valencia	64	27th	50	28th	61·9	53·4	57·4	- 1·3	108	0	6	0·50	- 0·43	28·7	- 5·3	26	- 5	Valencia.
	a Roche's Point ..	68	31st	49	27th	63·0	52·4	57·3	- 2·1	107	0	7	0·70	+ 0·01	29·6	—	27	—	Ballinacurra.
11. ENGLISH CHANNEL ..	a Scilly, St. Mary's ..	66	31st	56	26th, 28th	63·1	57·1	59·9	- 0·8	125	0	5	0·71	+ 0·17	46·9	- 2·6	43	- 2	Scilly.
	a Jersey, St. Aubins ..	71	31st	52	27th	65·3	56·3	60·5	- 2·0	130	0	6	0·55	+ 0·05	40.9	- 15·2	38	- 14	St. Heliers.
	a Guernsey	71	31st	54	26th, 27th	65·2	56·3	60·4	- 0·9	129	0	5	0·37	- 0·14	43·9	- 14·5	41	- 14	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 33·5 hrs.* (*-19·2 hrs.*), *31 %* (*-18 %*); *Bournemouth, 37·7 hrs. 35 %; Bognor 41·9 hrs. 39 %* ... For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound	—	—	54·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	53·2
	Crathes	0	31	57·5	54·9
	Balmoral	0	35	—	—
	West Linton	0	35	—	—
	Marchmont	0	39	56·0	—
2.	Cockle Park	0	39	55·1	54·1
	Durham	0	40	—	—
	York	—	—	56·8	55·0
	Hull	0	42	57·9	55·1
	Lincoln	—	—	58·7	55·4
	Rauceby	0	44	60·1	56·0
3.	Norwich	0	44	—	—
	Yarmouth	—	—	61·9	60·0
	Lowestoft				
	Cambridge	0	36	60·5	58·5
	Clacton-on-Sea	0	43	60·0	58·8
	Southend	0	50	61·1	—
	Tottenham	0	49	—	58·4
4.	Harrogate	0	44	54·3	53·4
	Huddersfield	0	47	57·7	53·9
	Buxton	0	44	56·4	52·4
	Sheffield	0	41	57·1	54·2
	Birmingham	0	40	57·5	56·8
	Nottingham	0	41	54·4	52·0
	Oxford	0	—	—	—
	Hereford	0	38	—	—
	Cirencester	0	37	—	—
5.	Margate	0	47	59·8	57·7
	Greenwich	0	38	—	—
	Westminster	0	43	—	—
	Kew	0	38	60·4	57·3
	Canterbury	0	42	59·3	57·5
	Tunbridge Wells	0	43	61·5	—
	Wisley	0	42	60·0	58·4
	Worthing	0	46	61·6	58·5
	Portsmouth	0	49	62·6	59·9
6.	Glasgow	0	40	—	—
	Rothesay	—	—	—	54·0
	Colmonel	0	42	—	—
	Dumfries	0	43	57·9	56·3
	Douglas	0	43	—	—
7.	Aspatria	0	41	—	—
	Newton Rigg	0	38	57·5	54·4
	Burnley	0	41	55·8	53·3
	Southport	0	47	61·2	59·5
	Manchester City	0	43	58·5	57·0
	Bettws-y-Coed	0	47	55·4	53·0
8.	Llangammarch Wells	?	?	58·1	54·1
	Cardiff	0	41	59·0	56·5
	Clifton	0	? 48	—	—
	Bath	—	—	61·4	58·4
	Plymouth	0	52	65·5	—
9.	Armagh	0	34	59·4	56·7
	Markree	0	32	—	—
10.	Dublin, Trin. Coll.	0	45	58·5	56·9
11.	Guernsey, Brooklyn	0	49	61·8	60·0

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	51	51	51·0
	Kirkwall	57	55	55·8
	Wick	52	50	50·9
SCOTLAND, E.	Cromarty	55	54	54·4
	Pennan Bay	59	56	57·2
	Aberdeen, Cove Bay	55	54	54·4
ENGLAND, N.E.	Burnmouth, Berwick	55	53	54·0
	Scarborough	59	51	54·1
ENGLAND, E.	Shipwash Lightship	61	59	59·9
	Margate‡	62	60	61·0
ENGLAND, S.E.	Eastbourne†	62	61	61·9
SCOTLAND, W.	Lamlash	55	52	53·7
	Ballantrae	56	54	54·8
ENGLAND, N.W.	Port Erin	57	54	54·4
ENGLAND, S.W.	Newquay	60	60	60·0
	Plymouth‡	62	60	60·8
	Salcombe	60	56	58·4
IRELAND, N.W.	Sheephaven	59	58	58·1
	Teelin	61	57	58·9
IRELAND, S.W.	Cleggan	60	55	57·9
	Seafield	61	57	58·9
IRELAND, E.				

‡ Only one observation each day.

Additional Ascents from the Howard Estate Observatory, Glossop.

Date 1909.	Time.	Maximum height. Metres.	Apparatus.
Monday, July 26th.	2.55 p.m. to 4.0 p.m.	1,200	One kite.
„ „	12.54 p.m. to 1.28 p.m.	1,060	„
Tuesday, July 27th.	8.50 a.m. to 11.8 a.m.	880	Two kites on one wire.
Wednesday, July 28th.	12.16 a.m. to 1.37 a.m.	920	One kite.
„ „	1.24 p.m. to 3.25 p.m.	1,420	Two kites on one wire.
Wednesday, July 28th.	4.5 p.m. to 5.33 p.m.	1,520	Two kites on one wire.
„ „	10.10 p.m. to 10.30 p.m.	530	Captive balloon.
Thursday July 29th.	9.0 a.m. to 10.17 a.m.	1,160	One kite.
„ „	10.20 a.m. to 12.0 mid.	1,580	„ „
Friday, July 30th.	3.33 p.m. to 5.40 p.m.	1,840	„ „

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; —→ = a fresh to strong breeze; →a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

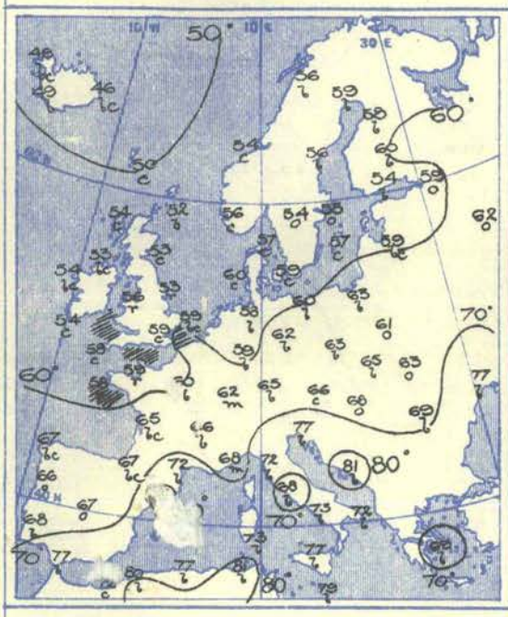
The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

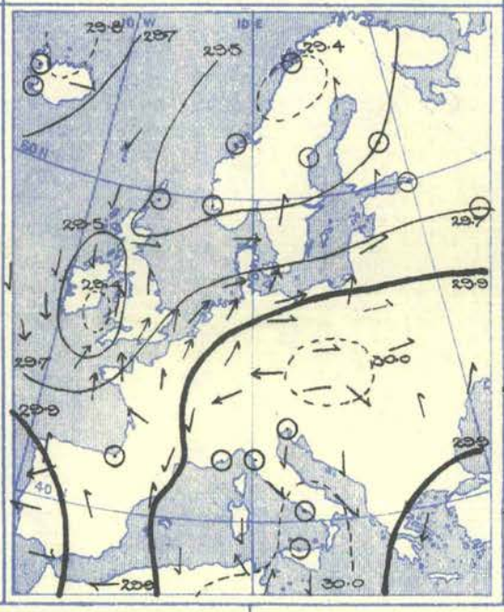
Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Sunday, 25th July, 1909.

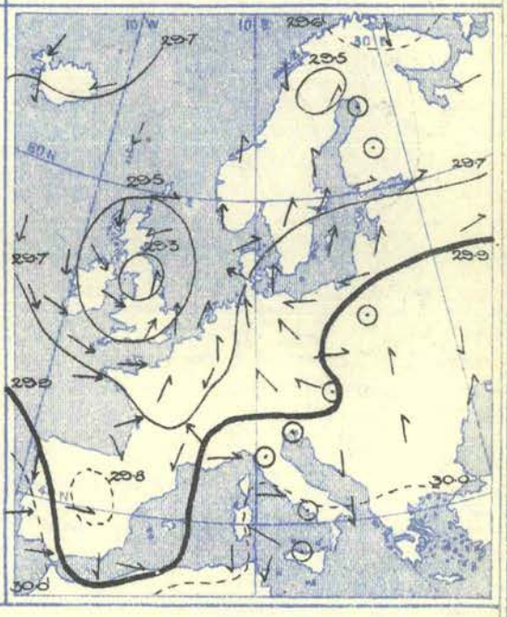
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled over these Islands and their neighbourhood, with much cloud generally, and rain in several localities. Mostly fair to very bright elsewhere. Nearly an inch and a half of rain falling later in the east and south of Scotland, and smaller amounts over this country generally, as well as in the western countries of the Continent.

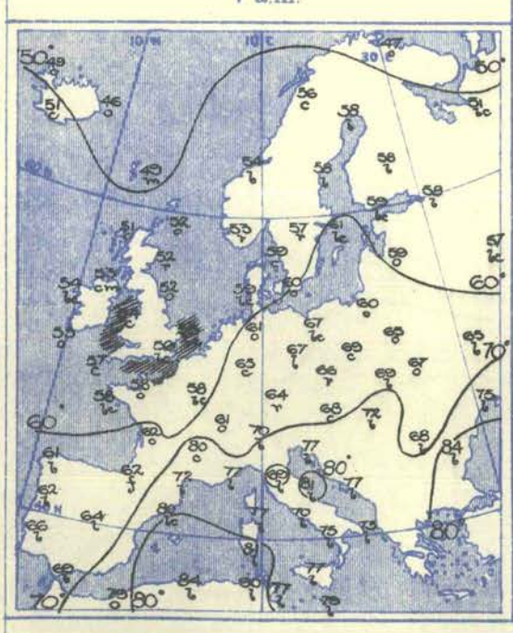
Temperature changed little and rather irregularly. Readings in morning about 80° at a few stations in the far south, and as high as 77° at Odessa; about 60° over a large portion of the Continent and the south-east of England, and not much above 50° in the north and north-west of the United Kingdom. Maxima during day between 60° and 65° over most of this country, but above 70° in central Europe, and between 75° and 85° or above over the south of our area. Highest readings 91° at Florence, and 97° at Bucharest.

Wind in morning showing an anticyclonic movement over the central countries, and cyclonic circulations over these Islands and Scandinavia. Southerly current fresh to strong along the south and south-west coasts of England and on the coast of Brittany, and South-Westerly current fresh to strong over the Baltic. Light to moderate breezes from various directions prevailing over the Mediterranean area. Little change during day.

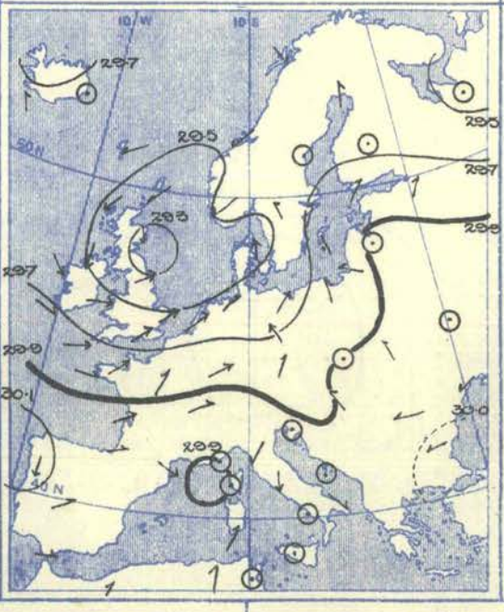
Barometer in morning below 29·4 ins. in a depression having its centre over the St. George's Channel, and also in another system in the north of Norway. Relatively low over the Bay of Biscay. Above 30·0 ins. in a large high pressure system over the central countries, and also over the Azores. Western depression moving north-eastward during day, and pressure beginning to increase again on our west and south-west coasts. A secondary disturbance appearing over the Netherlands and the north-east of France.

Monday, 26th July, 1909.

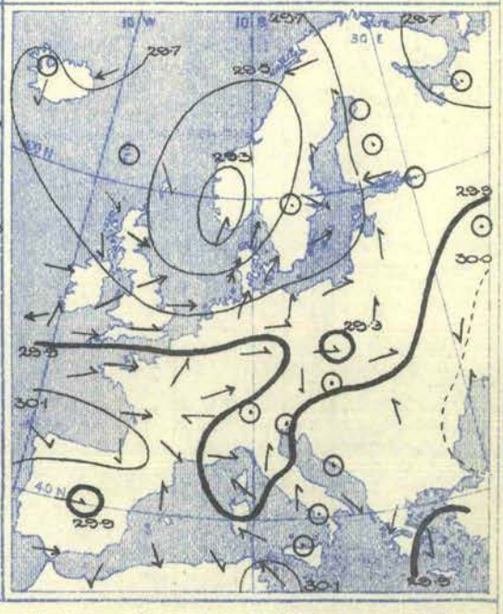
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright at nearly all places in the southern half of our area, and also in some northern localities, but variable over these Islands; rain falling at Aberdeen and also at several stations in central Europe and the south of Scandinavia. Rain later in most parts of these Islands, the north of France, and in many localities over the northern half of the Continent, and thunder and lightning in the south-east of England and at Paris.

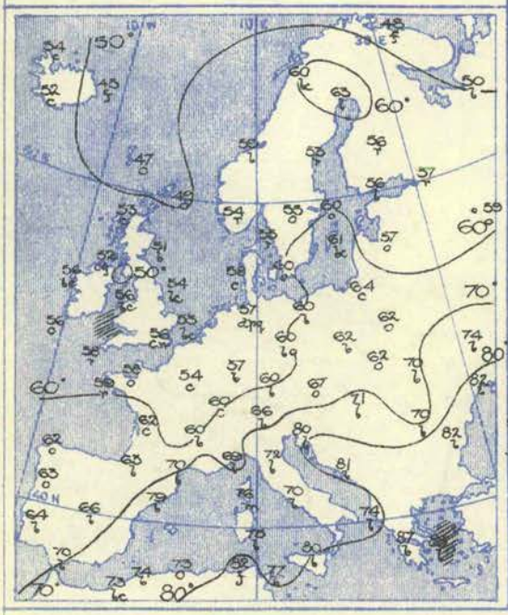
Temperature showing no decided change. Readings in morning below 55° at many of our own stations and in Norway, and below 60° over the northern half of France. Above 70° over a large part of the Mediterranean, above 80° in places, and as high as 90° at La Calle. Maxima during day again below 65° in most parts of the United Kingdom, but high in the more southern parts of our area; 93° at Buda-Pesth, 96° at Florence and Patras, 102° at Bucharest, and 111° at Tunis.

Wind in morning circulating cyclonically around the North Sea, the Westerly current blowing strongly on our southern coasts, and that from the Eastward fresh to strong in the south of Norway. Light and variable airs prevailing over the south of our area. Backing towards South by evening in the south-west of Ireland and to the South-Eastward during night on our south-west coasts generally. Increasing in force from South-West over the North Sea, and a gale setting in at Fanö.

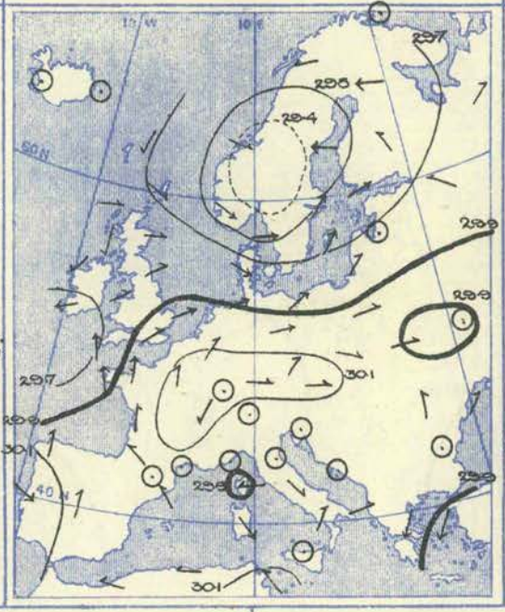
Barometer in morning below 29·3 ins. in a depression having its minimum off the east coast of Scotland and below 29·5 ins. in another disturbance in the far north of Russia. Above 30·0 ins. both in the south-west and south-east of our area, and rather higher over the Azores. North Sea disturbance travelling north-eastward later, and barometer rising briskly along the east coast of Britain. Baric rise slackening on our south-west coasts during day, and a sharp fall commencing during night.

Tuesday, 27th July, 1909.

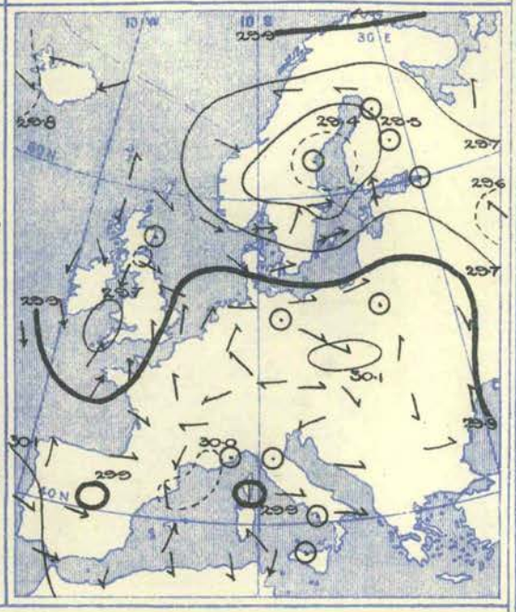
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy or showery over our south-western districts and over a large portion of northern Europe, but fair to very fine elsewhere. About an inch of rain later over a large portion of southern, central and eastern England, considerable falls in these Islands generally, and also over the nearer regions of the Continent.

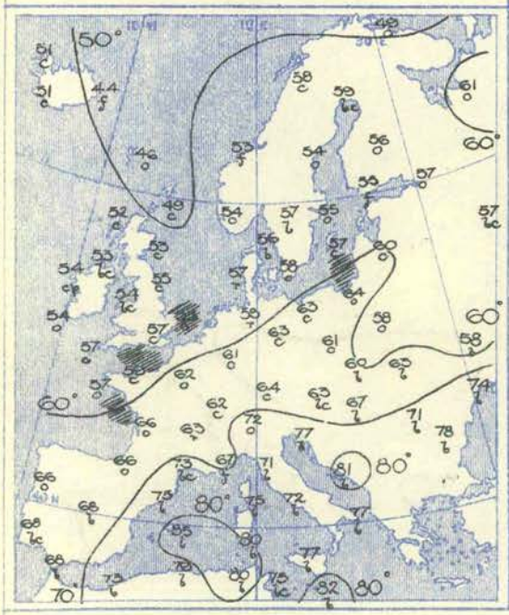
Temperature fallen over the central countries, changed little as a whole, Morning readings about 55° over much of this country, 60° or above over the major portion of the Continent, and between 70° and 80° very generally in the far south; above 80° in places, and nearly 90° in Greece. Maxima during day below 65° in almost all parts of our Islands, and only 60° at Bath and Oxford. Thermometer rising to above 80° in many places in the south of our area and to above 90° at some stations; 95° at Hermaustadt, 100° at Bucharest, and rather higher in central Algeria.

Wind in morning showing a well-marked cyclonic circulation over Scandinavia, and a partial cyclonic movement in thh south-west of these Islands. Strong over Denmark and the Baltic, and fresh or strong in the extreme south-west of England and at Brest. A fresh to high North-Easterly wind prevailing in Greece. A complete cyclonic circulation setting in over England and Ireland by evening, and Southerly current blowing very strongly on the English Channel. A gale springing up over the Baltic region.

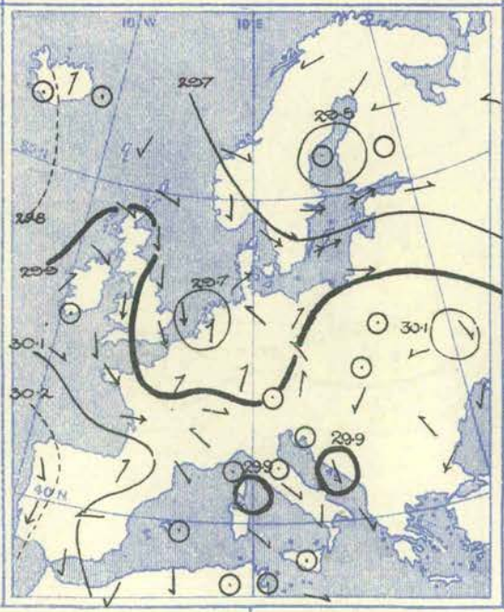
Barometer in morning above 30·1 ins. in an anticyclone covering much of the area between Portugal and central Europe; below 29·7 ins. in a depression off the south west of this country, and below 29·4 ins. in a system over Norway. South-western disturbance travelling eastward during day, and barometer beginning to rise again rather briskly in the south and south-west of Ireland. Norwegian depression continuing to travel in north-eastlery direction.

Wednesday, 28th July, 1909.

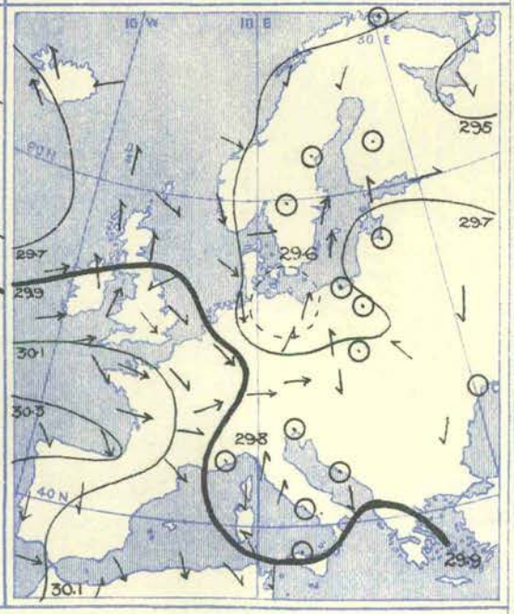
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy over the Netherlands and the adjacent part of the Continent as well as at Lyons and Helsingfors, and showery at Blacksod Point. Fair over the greater portion of these Islands, and fine over the southern parts of the Continent. Slight rain falling later over the inland parts of the Continent, in Scandinavia, and in the British Isles. Remaining very fine over the Mediterranean region.

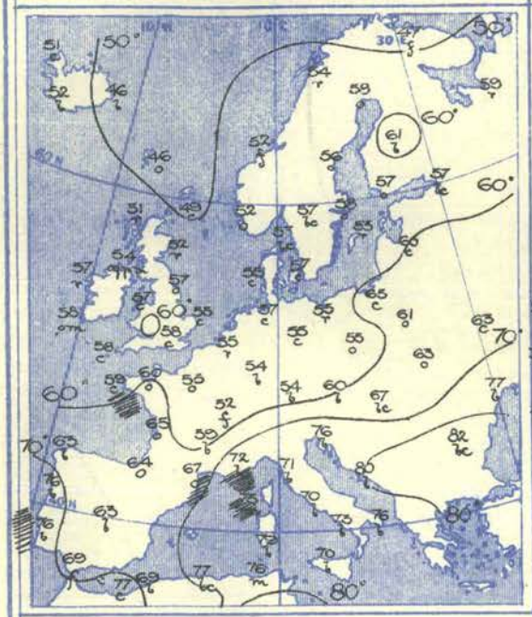
Temperature in morning as high as 90° as Cape de Garde, 88° at Sfax, and nearly 80° at several other stations in the far south. Not much above 60° in central Europe, and below that value in the United Kingdom and Scandinavia. Thermometer not reaching 50° in the north of the Continent, but rising to about 55° over these Islands and the Netherlands, to above 70° over the Continent generally, and over 85° in Italy, while in Algeria it attained the height of about 110°.

Wind in morning cyclonic very generally, the most important circulations being around the Netherlands and over the far north of Europe. Not much force as a whole, but strong to a gale from the Westward over the south of Sweden. A general backing taking place over our Islands during day, and a veering in the Netherlands; not much change elsewhere except a subsidence in the strength of the winds over southern Sweden.

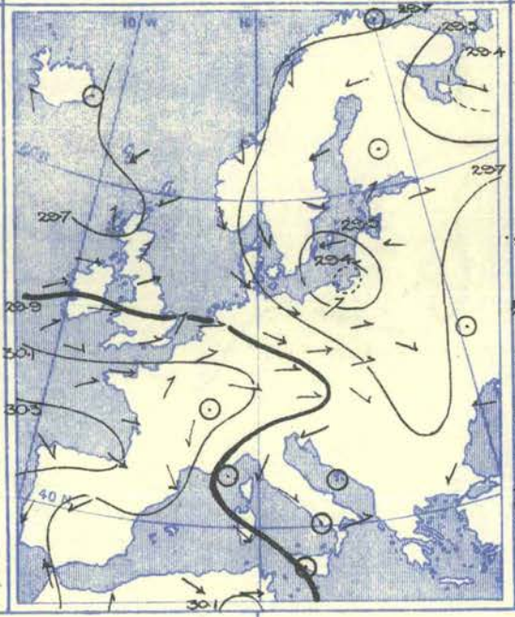
Barometer in morning above 30·2 ins. in Portugal; below 29 6 ins. in a depression centred near the Helder, and below 29·5 ins. in another system over the Gulf of Bothnia. Some very shallow depressions shown over the south of Europe. Depression over the Netherlands moving to north Germany by evening, and the system in the north travelling north-eastward to the White Sea. An increase of pressure taking place over the Bay of Biscay region.

Thursday, 29th July, 1909.

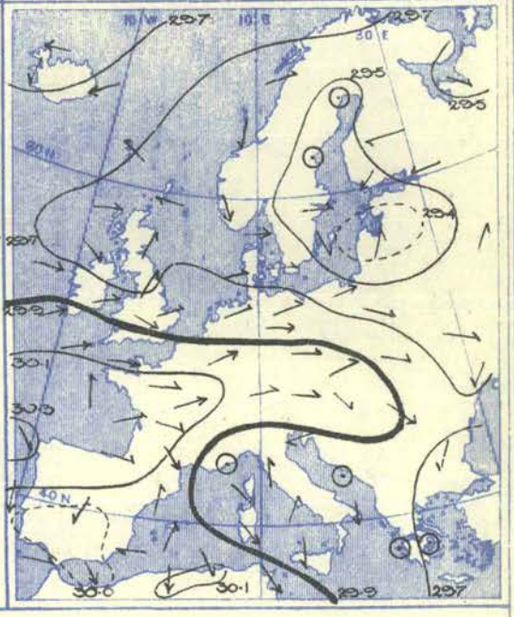
Temperature and Weather 7 a.m.



Barometer and Wind 7 a.m.



Barometer and Wind 6 p.m.



Weather in morning rainy in the north of these Islands and at some isolated places in northern Europe, cloudy or dull over the remainder of the Continent, but very fine in the Mediterranean and Black Sea regions. Slight rain falling later over most parts of these Islands, the Netherlands, southern Scandinavia and Russia, but an inch measured at Nairn. Continuing very fine in the southern regions.

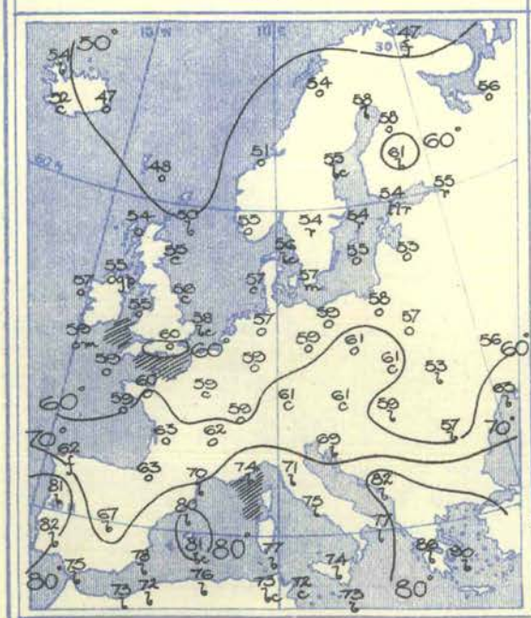
Temperature changed but little. Readings in morning ranging from about 50° in the most northern regions, and nearly 60° over the central countries of the Continent to above 70° in the west of Spain and most of the Mediterranean region, and to above 80° in the Balkan Peninsula. Not rising much above 65° in these Islands and the northern half of the Continent, but exceeding 75° in the central countries, and reaching 90° in the extreme south, while in Algeria it rose above 110°.

Wind in morning mostly cyclonic in the central and northern regions of the Continent, but anticyclonic in the south-west. Generally moderate or light in force, but strong or high from between north-west and south-west at some places in central Europe. Little change in direction during day, but a diminution in intensity over Germany, and a more decided cyclonic circulation appearing over Spain.

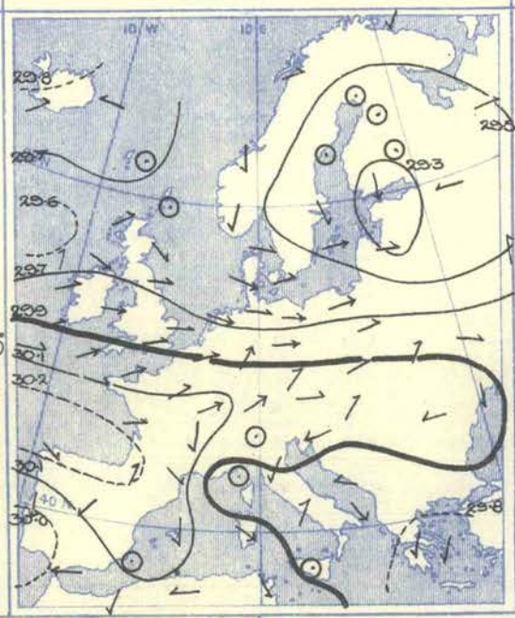
Barometer in morning above 30·3 ins. over the south of the Bay of Biscay, and decreasing thence to below 29·4 in a well marked depression over Prussia, and also in another system over the White Sea region. Relatively low, below 29·7 ins. to the north-westward of these Islands. Bay Anticyclone remaining almost stationary, but Prussian depression moving a little to the north-eastward during day.

Friday, 30th July, 1909.

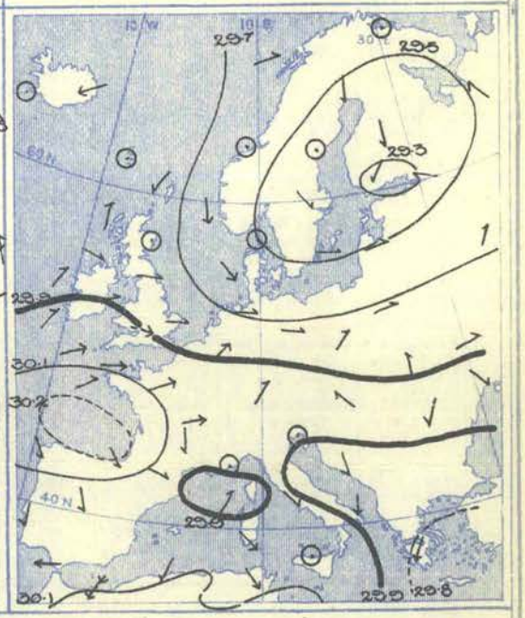
Temperature and Weather 7 a.m.



Barometer and Wind 7 a.m.



Barometer and Wind 6 p.m.



Weather in morning fine and bright over south eastern and southern Europe and the Mediterranean, and fair on the east coast of Britain, but cloudy or dull over the greater part of these Islands as well as in France, Germany, and Scandinavia, with rain over central England, and over southern Sweden and the Baltic; a thunderstorm at Hangö. Rain during day in most parts of the British Isles and the central parts of the Continent, heaviest amounts 0·6 in. at Shields and 0·7 in. at Blacksod Point and Riga; remaining fine over southern Europe.

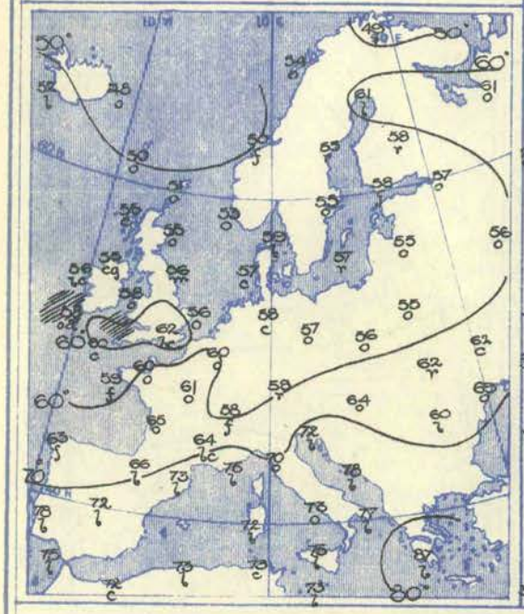
Temperature fallen over south-eastern Europe, but changed little and irregularly over our area as a whole. Morning readings 50° or below in Shetland and the Icelandic region, between 55° and 60° over these Islands and the Continent generally, but between 70° and 80° over the southern countries and the Mediterranean, and as high as 90° at Athens. Maxima ranging between 60° and 70° during day in this country, but between 80° and 90° over southern Europe, and above 90° at some stations in Algeria.

Wind in morning generally Westerly over western and northern Europe and light to fresh in force, strong breeze from North locally at Hangö. More variable over southern Europe, but mostly moderate from North-West or North; at San Fernando there was a high wind from East. Strong wind at Hangö, decreasing during day; little other change beyond a backing to the Southward in the Hebrides.

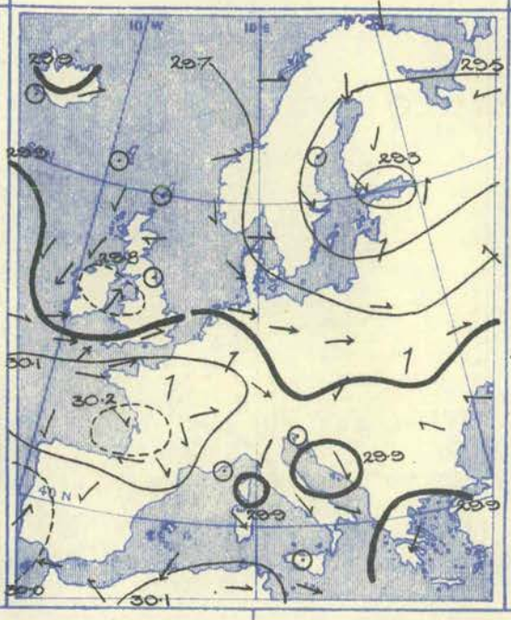
Barometer in morning above 30·2 ins. over the Bay of Biscay; below 29·3 ins. in a depression over the Baltic Provinces, below 29·6 ins. on the Atlantic off our north-west coasts, below 29·8 ins. over Greece, and below 30·0 ins. off the south-west of Spain. Very little change taking place in the distribution of pressure during day.

Saturday, 31st July, 1909.

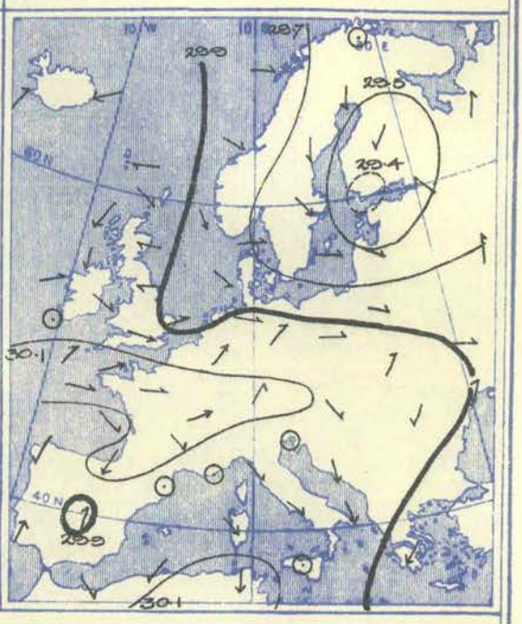
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the Mediterranean and southern and south-eastern Europe, as well as in the west of Iceland; generally cloudy or overcast in other parts of our area, with rain at some of the Irish stations and in parts of northern and central Europe. Rain falling during day at most of our own stations as well as in Scandinavia, Russia, Germany, and the Low Countries; amounts not large generally, but nearly an inch at Groningen.

Temperature risen over central England, and fallen over Germany, changed irregularly elsewhere. Morning readings about 50° in the Icelandic region, between 55° and 60° over the greater part of these Islands and northern and central Europe, but above 70° over the southern countries and the Mediterranean region, and as high as 87° at Athens. Rising to 70° and upwards at many of our southern stations during day, but remaining at 60° or below at several of those in the north. Maxima very high over southern Europe; 100° at Madrid.

Wind South-Westerly, light to fresh, over the southern half of the British Islands, Easterly or North-Easterly light in the north and north-west. Variable in direction and light or moderate in force over the Continent generally, but fresh or strong at some stations in the Mediterranean. Increasing to a strong breeze in the south-east of England later, and to a high wind at Frankfort; not much change elsewhere.

Barometer in morning highest, 30·2 ins. and upwards, over the south-west of France, and above 30·1 ins. over Tunisia; lowest, 29·3 ins. and less, in a small depression over the Gulf of Finland, 29·8 ins. and less in another over the north of Ireland and the Irish Sea, and below 29·9 ins. in three shallow systems over south-eastern Europe. Barometer rising during day in the west of these Islands, falling in the east; depression over Ireland moving south-eastwards.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). *See* also p. 244.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1909.												
1	July 25th, 10.57 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	287° 90% 190°, 9		284° 80% 210°, 18	280° 85% 210°, 17				278° 90% 220°, 17	1,400	Overcast. Ni. and St. Heights above 350 m. Raining. Kite not sustainable at 100 m.
2	July 26th, 4.28 p.m. to 6.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	285° 77% 285°, 9	284° 83% 285°, 11	284° 84% 284°, 12	277° 97% 284°, 16				276° 100% 285°, 17	1,120	Fair to fine. Showers at intervals. Fresh breeze. Clouds, Cu. at 300 m., and Ci. S higher up.
3	July 27th, 6.26 p.m. to 7.50 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 97% 129°, 7	284° 96% 127°, 8	283° 96% 125°, 9	280·5° 95% 118°, 11				280° 98% 116°, 13	1,140	Dull and wet. Moderate breeze. Clouds, Nimbus 10.
4	July 28th, 10.40 a.m. to 12.25 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 83% 280°, 7	286° 84% 282°, 7·5	285° 80% 283°, 8	282° 80% 280°, 10	280° 70% 292°, 10·5	279° 70% 295°, 12		278° 92% 296°, 12	2,050	Fair to fine. Moderate breeze. Clouds, Cu. 2 to 8.
5	July 28th, 10.47 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	291° 63% 330°, 8	288° 63% 360°, 8	283° 67% 10°, 9	279° 73% 360°, 8						Quarter overcast. Cu. over land; Fr.-Cu. over sea. Wind varying in velocity, almost calm at 300 m. at descent.
6	July 29th, 1.0 p.m. to 2.18 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 96% 250°, 6	283° 96% 270°, 8	282° 96% 274°, 10	281° 93% 285°, 14	279° 87% 276°, 15	277° 78% 274°, 16		277° 74% 274°, 17	2,060	Dull and wet. Moderate breeze. Clouds, Ni. and Cu.-Ni. 9 to Ni. 10.
7	July 30th, 10.30 a.m. to 12.37 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	286° 97% 294°, 6	285° 97% 294°, 8	284° 98% 294°, 9	280° 100% 292°, 12	278° 100% 292°, 14			277° 100% 292°, 15	1,820	Dull and wet. Clearing later. Moderate breeze. Clouds, Ni. 10 at 490 m. to Cu.-Ni. and Cu. 9. Heavy rain storm at 12.30 p.m.
8	July 31st, 10.20 a.m. to 11.52 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 100% 236°, 6	286° 100% 250°, 9	285° 100% 258°, 10	284° 100% 290°, 16	280° 100% 268°, 15			279° 100% 266°, 15	1,600	Dull and wet. Heavy rain storms at intervals. Moderate breeze. Clouds, Ni. 10.
9	July 31st, 3.0 p.m. to 3.40 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	291° 77% 270°, 15		286° 87% 280°, 19					287° 87% 280°, 18	635	Half overcast. St., cloud level 500 m. Kite not sustainable at 100 m.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9
No. of Kites	1	1	2	2	1	1	2	1	1
Area of Surface (sq. metres) ..	5	7·5	15	15	7	7·5	15	7·5	5
Length of Wire (metres)	2,100	1,800	1,750	3,400	1,900	3,300	3,000	2,300	800

63, Victoria Street, London, S.W. *August 4th, 1909.*

W. N. SHAW, *Director.*

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* } No. 31. THIRTY-FIRST WEEK, SUNDAY AUGUST 1ST TO SATURDAY AUGUST 7TH, 1909. [*Price 6d. Annual Subscription post paid £1 10s. 6d.*

I.—General Remarks.

Weather.—After the first day or two the atmospheric conditions underwent a great improvement, the cloudy or dull skies and occasional rain being superseded by fair and dry weather, with a large amount of sunshine in many places.

Temperature, after remaining very low for a time, rose decidedly and became above the normal, but the only parts of the Kingdom in which the mean for the week exceeded the average were, Ireland, England, S.W., the English Channel, England, N.E., and Scotland, E. In England, E. and S.E., the deficit was more than 1°, and in England, N.W., more than 1°·5. The highest of the maxima occurred either on the 6th or 7th at nearly all stations, and ranged from 84° in England, N.E., 82° in England, S.W., and 81° in most other English districts and also in Ireland, S., to 76° in Scotland, E., and England, N.W., and to 70° in Scotland, N. The lowest of the minima, which were recorded generally either on the 2nd or 3rd, ranged from 30° in Scotland, E. (at Balmoral on the 3rd), 36° in England, S.W., and 37° in Scotland, N., to 45° in the English Channel, and to 46° in England, N.E. The lowest grass readings reported were 28° at Balmoral, 30° at West Linton, 31° at Birmingham and Llangammarch Wells, and 35° at Marchmont, Colmonell, Southport, and Markree Castle.

Mean Temperature of the Sea.—On nearly all parts of the coast the water was colder than it was during the corresponding week of last year, the greatest difference being—4°·4 at Margate. The actual means for the week ranged from 62°·3 at Eastbourne, 61°·9 at Margate, 61°·1 at Seafield and above 60° at some other southern and south-western stations to 53°·9 at Burnmouth, 52° at Wick, and 51°·1 at Lerwick.

Rainfall was less than the average generally, but more in England, E. and N.E. In England S.E., and Ireland, S., the fall was very slight and in the English Channel district the week was rainless. Very heavy falls were experienced at some stations in the east and north-east of England on Sunday; at Hull the measurement was 2·68 ins., at Hillington, 1·55 in., Scarborough, 1·43 in., and Spurn Head, 1·21 in.

Bright Sunshine was above the average in all districts, the excess in some southern and south-western localities being rather large. The percentage of the possible duration ranged from 76 in the English Channel, 56 in England, S·E., and 55 in England, S.W., to 33 ins. in Scotland, E., and Ireland, N., and to 25 in Scotland, N.

Barometer and Wind.—Soon after the commencement of the week a high pressure system of considerable size began to extend over these Islands from the Atlantic, and during the greater part of the period it lay over this country and its neighbourhood. On Wednesday, when a large cyclonic system spread over these Islands from the north-westward, the anticyclonic centre lay over France. The wind varied considerably in direction, early in the week; while the highest pressure was on the ocean, it was mainly Northerly, and on Wednesday Southerly and South-Westerly, but on the subsequent days it was chiefly from the Westward in the north, and from the Eastward in the south.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 244.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Deficient	Moderate	Deficient	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Light	Moderate	Heavy	Heavy	Moderate	Very light	Moderate	Light	Light	Very light	Very light	Nought
	Sunshine ...	Abundant	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Abundant	Abundant	Abundant	Very abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 9 weeks from June 6th, 1909.	Warmth ...	0 * 5	0 * 6	0 * 6	0 * 7	0 * 5	0 * 8	0 * 5	0 * 6	0 * 6	0 * 4	0 * 4	0 * 7
	Rainfall ...	2 * 4	2 * 4	4 * 4	4 * 2	3 * 2	3 * 3	3 * 2	4 * 3	3 * 4	1 * 3	1 * 5	2 * 5
	Sunshine ...	3 * 2	3 * 2	0 * 6	2 * 5	2 * 5	2 * 5	1 * 3	2 * 4	3 * 3	1 * 3	2 * 3	3 * 3

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 1	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5

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Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-FIRST WEEK—August 1st to August 7th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	70	37	61·4	49·1	54·9	− 0·2	90	− 2	0	0	4	− 1	0·45	−0·41	28	+ 2	25	+ 2
Eastern																		
1. SCOTLAND, EAST	76	30	65·3	49·4	56·9	+ 0·3	104	+ 1	0	0	3	− 1	0·51	−0·12	37	+ 2	33	+ 2
2. ENGLAND, N.E.	84	46	68·3	51·6	59·5	+ 0·8	123	+ 6	0	0	2	− 1	0·85	+0·16	41	+ 2	38	+ 2
3. ENGLAND, EAST	81	42	68·3	50·9	59·1	− 1·4	120	− 10	0	0	2	− 1	0·62	+0·13	53	+ 9	49	+ 9
4. MIDLAND COUNTIES	81	42	70·3	49·8	59·4	− 0·4	122	− 2	0	0	1	− 2	0·37	−0·19	49	+ 10	46	+ 9
5. ENGLAND, S.E.	81	43	69·9	51·8	60·3	− 1·2	128	− 8	0	0	1	− 2	0·09	−0·39	60	+ 15	56	+14
Western																		
6. SCOTLAND, WEST	78	38	64·9	50·1	57·1	− 0·1	106	0	0	0	3	− 1	0·54	−0·33	38	+ 1	35	+ 1
7. ENGLAND, N.W.	76	40	65·5	50·1	57·3	− 1·7	107	− 12	0	0	1	− 2	0·22	−0·56	49	+ 11	45	+10
8. ENGLAND, S.W.	82	36	69·7	51·5	60·1	+ 0·2	127	+ 2	0	0	1	− 2	0·19	−0·48	59	+ 16	55	+15
9. IRELAND, NORTH	78	41	65·8	51·2	58·1	+ 0·5	113	+ 4	0	0	2	− 3	0·22	−0·59	36	+ 6	33	+ 5
10. IRELAND, SOUTH	81	39	69·3	51·1	59·6	+ 0·4	123	+ 3	0	0	1	− 3	0·02	−0·79	53	+ 19	49	+17
11. ENGLISH CHANNEL	79	45	69·9	55·6	62·3	+ 0·6	142	+ 4	0	0	0	− 3	0·00	−0·53	80	+ 24	76	+22

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 9 Weeks, June 6th to August 7th, 1909.

0. SCOTLAND, NORTH	71	35	*	*	*	*	677	− 81	0	− 2	40	+ 3	5·81	−0·80	264	− 22	24	− 2
Eastern																		
1. SCOTLAND, EAST	76	30	*	*	*	*	748	−108	0	− 1	33	+ 1	5·28	−0·12	337	− 14	32	− 1
2. ENGLAND, N.E.	84	33	*	*	*	*	869	− 90	0	0	32	+ 4	5·88	+1·34	301	− 89	29	− 9
3. ENGLAND, EAST	81	35	*	*	*	*	943	−135	0	0	33	+ 6	5·50	+1·05	359	− 68	35	− 7
4. MIDLAND COUNTIES	81	33	*	*	*	*	908	−146	0	0	32	+ 5	5·72	+1·09	314	− 69	31	− 7
5. ENGLAND, S.E.	81	35	*	*	*	*	968	−162	0	0	30	+ 5	4·69	+0·49	369	− 69	37	− 7
Western																		
6. SCOTLAND, WEST	78	32	*	*	*	*	803	−107	0	0	33	0	8·06	+1·29	363	− 9	35	− 1
7. ENGLAND, N.W.	76	32	*	*	*	*	852	−144	0	0	34	+ 4	6·61	+1·04	342	− 46	33	− 4
8. ENGLAND, SW.	82	30	*	*	*	*	930	−120	0	0	32	+ 3	5·31	−0·13	403	− 13	40	− 1
9. IRELAND, NORTH	78	33	*	*	*	*	828	− 89	0	0	37	− 1	5·32	−0·89	282	− 31	27	− 3
10. IRELAND, SOUTH	81	36	*	*	*	*	945	− 70	0	0	31	− 1	4·33	−1·57	323	− 26	32	− 3
11. ENGLISH CHANNEL	79	42	*	*	*	*	1039	− 87	0	0	23	− 6	2·62	−1·67	515	+ 10	52	+ 1

THE YEAR.—Aggregates, &c., for the Period of 31 Weeks, January 3rd to August 7th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1106	−100	535	− 22	143	+ 2	22·24	−5·21	761	− 20	26	− 1
Eastern																		
1. SCOTLAND, EAST	76	1	*	*	*		1226	−161	673	+ 53	120	+ 4	19·54	+2·88	881	− 38	31	− 1
2. ENGLAND, N.E.	84	14	*	*	*	*	1467	− 44	580	+105	106	+ 1	15·23	+2·21	958	− 33	34	− 1
3. ENGLAND, EAST	82	12	*	*	*	*	1612	−157	554	+ 33	108	+ 6	13·63	+0·86	1123	+ 61	40	+ 2
4. MIDLAND COUNTIES	82	8	*	*	*	*	1628	−145	642	+109	100	− 1	14·53	+0·19	1000	+ 50	35	+ 2
5. ENGLAND, S.E.	82	0	*	*	*	*	1670	−227	482	+101	101	+ 5	14·59	+0·78	1186	+117	42	+ 4
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	1390	−112	445	+ 20	116	− 6	25·58	+0·99	968	+ 23	34	+ 1
7. ENGLAND, N.W.	79	10	*	*	*	*	1489	−131	466	+ 80	111	0	18·54	+0·68	1062	+103	37	+ 4
8. ENGLAND, S.W.	82	7	*	*	*	*	1615	−200	390	+ 89	110	+ 1	17·82	−1·70	1149	+ 97	41	+ 3
9 IRELAND, NORTH	78	14	*	*	*	*	1500	− 77	315	− 30	136	+ 3	19·35	−0·82	857	− 16	30	− 1
10. IRELAND, SOUTH	81	15	*	*	*	*	1770	− 64	265	+ 6	125	+ 7	19·82	−1·60	983	+ 13	35	0
11. ENGLISH CHANNEL	79	25	*	*	*	*	2001	− 14	151	+ 42	101	−15	14·68	−1·53	1379	+110	49	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked 𝔐 is supplied by the Royal Meteorological Society, and that for Stations marked 𝔖 is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				Names of Stations.
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees.) Above 42°	Accumulated Heat for the Week (in Day degrees.) Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*61*	*6th*	*41*	*3rd*	*58·0*	*48·2*	*52·8*	—	*76*	*0*	4	*0·32*	—	*25·7*	—	*22*	—	*Balta Sound.*
	a Sumburgh Head ..	58	4, 5, 6th	42	3rd	56·1	48·0	51·8	- 0·5	69	0	4	0·41	- 0·20	29·7	+ 0·1	26	0	Deerness.
	a Stornoway	64	2nd	45	3rd	61·1	49·3	54·9	+ 0·8	90	0	3	0·41	- 0·42	33·1	+ 1·7	29	+ 1	Stornoway.
	a Castlebay, Barra Isd.	*60*	*1st, 2nd*	*48*	*3rd*	*58·3*	*51·3*	*54·6*	- *2·0*	*88*	*0*	*4*	*0·44*	—	*26·6*	—	*24*	—	*Castlebay.*
	a Wick	70	7th	37	3rd	63·7	46·0	54·3	- 0·1	86	0	3	0·48	- 0·17	*	*	*	*	*
SCOTLAND, N. — b, Mainland.	*p* Strathpeffer	69	7th	40	3rd	63·1	50·1	56·2	+ 0·5	99	0	4	0·27	- 0·34	29·2	+ 0·9	26	+ 1	Strathpeffer.
	p Glencarron ..	62	1, 4, 5th	42	3rd	60·2	49·5	54·5	+ 0·7	88	0	5	0·49	- 0·95	*	*	*	*	*
	p Fort Augustus	68	7th	37	3rd	62·6	51·0	56·5	+ 0·6	102	0	4	0·21	- 0·54	21·1	- 0·5	19	0	Fort Augustus.
	p Fort William	68	6th, 7th	39	3rd	62·9	49·9	56·0	- 0·4	98	0	4	0·90	- 0·40	*	*	*	*	*
1. SCOTLAND, E.	*p* Gordon Castle S	73	4th, 7th	40	3rd	66·1	48·7	56·9	+ 0·4	104	0	3	0·46	- 0·34	*35·9*	—	*32*	—	*Gordon Castle.*
	a Nairn	71	4th, 7th	37	3rd	64·4	48·4	55·9	- 0·5	97	0	3	0·31	- 0·25	38·1	—	34	—	Nairn.
	a Aberdeen	76	6th	48	2nd	64·9	52·6	58·4	+ 2·2	115	0	3	0·41	- 0·23	37·2	+ 1·7	33	+ 2	Aberdeen.
	a Balmoral	75	7th	30	3rd	66·7	46·0	55·7	+ 2·0	96	0	2	0·38	- 0·35	35·3	—	32	—	Crathes S.
	p Crieff .. .. S	76	6th	43	3rd	66·7	50·2	58·0	+ 0·4	112	0	4	0·94	+ 0·13	36·3	—	32	—	Balruddery
	a Leith	75	6th	44	3rd	65·6	52·3	58·6	+ 0·4	116	0	4	0·30	- 0·33	36·2	+ 3·5	33	+ 3	Edinburgh.
	a West Linton .. S	72	6th	34	3rd	63·2	47·0	54·6	- 0·5	88	0	4	0·53	—	*30·4*	—	*27*	—	*West Linton.*
	p Marchmont .. S	76	6th	41	3rd	64·7	50·1	57·0	+ 0·9	105	0	4	0·75	- 0·02	37·0	+ 1·0	33	+ 1	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	76	6th	47	3rd	66·9	52·6	59·3	+ 2·3	121	0	3	0·81	+ 0·16	38·3	—	35	—	Cockle Park.
	a Shields	76	6th	47	3rd	67·0	50·9	58·5	+ 0·8	116	0	2	0·36	- 0·24	*34·6*	+ *3·0*	*32*	+ *3*	*Newcastle.*
	p Durham	79	6th	46	7th	68·2	49·7	58·4	+ 0·2	115	0	2	0·31	- 0·31	37·5	+ 1·6	34	+ 2	Durham.
	p Rounton .. M	79	6th, 7th	48	1st, 3rd	69·4	49·5	58·9	+ 1·3	118	0	2	0·93	+ 0·28	*	*	*	*	*
	p Scarborough .. M	73	7th	50	1st, 3rd	66·7	53·9	59·9	+ 1·4	125	0	2	1·44	+ 0·86	41·3	—	38	—	Scarborough.
	p York	80	7th	50	1, 2, 3, 6	70·1	51·1	60·0	+ 0·6	126	0	1	0·91	+ 0·33	39·5	+ 2·0	36	+ 2	York.
2. ENGLAND, N.E. — b, South.	*a* Spurn Head	72	4th	50	3rd	65·3	53·1	58·8	- 0·6	118	0	2	1·28	+ 0·85	*	*	*	*	*
	a Lincoln	82	7th	49	3rd	70·2	51·8	60·5	+ 0·4	130	0	1	0·90	+ 0·37	44·7	—	41	—	Skegness.
	a Fulbeck	84	7th	48	3rd	71·2	51·6	60·8	+ 0·7	132	0	2	0·68	+ 0·14	46·2	—	43	—	Rauceby.
															57·5	—	*53*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	75	7th	46	4th	66·6	51·7	58·7	- 1·5	117	0	2	0·72	—	49·3	—	46	—	Cromer.
	p Hillington .. M	75	6th	46	4th	68·3	50·0	58·6	- 1·6	116	0	1	1·55	+ 0·90	44·9	+ 1·3	42	+ 1	Hillington.
	a Yarmouth	72	4th	49	4th	65·6	52·7	58·8	- 1·6	118	0	2	0·56	+ 0·02	55·5	—	51	—	Yarmouth.
	a Norwich	81	7th	45	4th	70·7	50·3	59·9	- 0·5	125	0	3	0·57	—	*	*	*	*	*
	p Geldeston	76	5th	42	4th	69·1	48·6	58·2	- 1·7	113	0	2	0·51	0·00	51·0	+ 4·4	47	+ 4	Geldeston.
3. ENGLAND, E. — b, South.	*p* Cambridge	79	7th	47	7th	70·8	49·9	59·7	- 1·3	124	0	2	0·62	+ 0·09	57·6	+12·0	54	+11	Cambridge.
	a Felixstowe	*70*	*5th*	*48*	*4th*	*63·9*	*52·1*	*57·7*	- *3·6*	*110*	*0*	*2*	*0·44*	—	*56·5*	—	*53*	—	*Felixstowe.*
	a Clacton-on-Sea ..	70	7th	48	3rd	65·4	53·1	58·9	- 2·4	118	0	2	0·33	—	51·7	—	48	—	Clacton.
	a Rothamsted ..	76	6th, 7th	43	3rd	68·2	49·1	58·1	- 1·8	113	0	2	0·50	- 0·06	57·1	+ 9·4	53	+ 9	Rothamsted.
	a Shoeburyness ..	*73*	*7th*	*48*	*3rd*	*67·7*	*53·1*	*60·0*	- *2·7*	*126*	*0*	*2*	*0·28*	- *0·11*	*52·9*	—	*49*	—	*Southend.*
	p Tottenham	79	7th	46	3rd	70·2	52·4	60·8	- 1·4	132	0	1	0·24	—	54·8	—	51	—	Tottenham.
						69.2	48.8	Summer in 1908											
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate															—		—	Harrogate.
	a Bawtry	81	7th	47	5th	*71·3*	*50·3*	*60·2*	+ *0·5*	127	0	2	0·37	- 0·17	39·9	+ 4·2	37	+ 4	Worksop.
	p Buxton .. M															—		—	*Buxton.*
	a Nottingham ..	79	7th	48	6th	69·7	50·4	59·5	- 0·6	123	0	3	0·48	- 0·06	43·8	—	41	—	Nottingham.
	p Birmingham, Edgbn	80	7th	46	3rd	69·4	51·8	60·1	+ 0·9	127	0	1	0·19	- 0·36	45·7	—	42	—	Birmingham.
	a Raunds .. M	—	—	42	3rd	—	48·6	—	—	—	—	—	—	—	*	*	*	*	*
4. MIDLAND COUNTIES. — b, West.	*a* Oxford	78	6th, 7th	46	3rd	70·0	52·3	60·6	- 0·6	130	0	1	0·53	0·00	54·4	+10·0	51	+ 9	Oxford.
	a Cheadle .. M	78	6th	45	3rd	68·3	49·1	58·1	+ 0·4	113	0	2	0·34	- 0·36	39·7	—	36	—	Sheffield.
	p Shrewsbury ..	81	6th	44	3rd	71·4	48·7	59·4	+ 0·2	122	0	1	0·14	—	*	*	*	*	*
	a Hereford .. M	78	6th, 7th	43	3rd	71·2	46·7	58·2	- 1·8	113	0	1	0·19	- 0·34	*	*	*	*	*
	a Cirencester	78	6th	45	5th	69·7	48·3	58·4	- 0·5	115	0	1	0·65	+ 0·02	55·1	+ 9·2	50	+ 9	Cirencester.
	a Bath	79	6th, 7th	46	3rd	71·3	50.4	60·2	- 0·2	127	0	1	0·40	- 0·20	66·1	—	62	—	Bath.
															54·4	—	*51*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	78	7th	46	3rd	70·2	52·2	60·7	- 0·8	131	0	1	0·16	- 0·35	50·5	+ 4·9	47	+ 5	Kew.
	a Marlborough ..	77	6th, 7th	44	3rd, 5th	70·3	47·1	58·0	- 1·4	112	0	1	0·30	- 0·24	58·2	+16·3	54	+15	Marlborough.
	a Margate	73	5th	49	4th	67·0	54·2	60·2	- 1·8	127	0	2	0·13	- 0·32	47·7	+ 1·4	45	+ 1	Margate.
	a Wisley, Surrey ..	79	7th	44	3rd	71·2	49·8	59·9	- 2·0	125	0	2	0·14	—	54·0	—	51	—	Wisley.
	a Swarraton .. M	78	7th	45	3rd, 5th	70·6	49·1	59·2	- 0·2	120	0	1	0·03	- 0·54	71·3	—	67	—	Worthing.
	a Tunbridge Wells M	78	7th	43	3rd	70·1	50·4	59·7	- 0·6	124	0	1	0·03	- 0·47	56·4	+10·0	53	+ 9	Tunbridge Wells.
	a Dungeness	71	7th	46	3rd, 4th	67·3	52·6	59·5	- 1·6	123	0	2	0·06	- 0·36	53·3	—	50	—	Littlestone.
	p Hastings	78	7th	46	3rd	69·2	53·2	60·7	- 0·6	131	0	1	0·01	- 0·52	*61·2*	+ *8·9*	*58*	+ *8*	*Hastings.*
	p Southampton ..	81	7th	49	3rd	72·4	53·4	62·3	- 0·2	142	0	1	0·03	- 0·53	68·2	+15·8	64	+18	Southampton.
	a Ventnor	79	7th	50	3rd	70·8	55·8	62·9	+ 0·6	146	0	1	0·01	- 0·46	76·6	+28·2	72	+27	Ventnor.
															63·6	+12·1	60	+12	Eastbourne.
LONDON	*a Westminster* ..	*80*	*7th*	*47*	*3rd*	*71·0*	*53·7*	*61·8*	*0·0*	*139*	*0*	*1*	*0·25*	- *0·27*	*46·6*	+ *6·4*	*44*	+ *6*	*Westminster.*
	a Greenwich	*80*	*7th*	*47*	*3rd*	*72·7*	*51·1*	*61·3*	- *1·8*	*135*	*0*	*2*	*0·26*	- *0·26*	*54·4*	+ *2·2*	*51*	+ *2*	*Greenwich.*
6. a, SCOTLAND. W. .. — b, ISLE OF MAN ..	*p* Laudale	71	6th	50	2nd, 3rd	65·5	53·8	59·3	+ 2·7	121	0	2	0·91	- 0·34	*	*	*	*	*
	p Poltalloch .. S	69	5th, 6th	40	3rd	64·0	49·4	56·3	- 1·0	100	0	4	0·61	- 0·38	*	*	*	*	*
	p Glasgow	71	6th	44	3rd	64·4	51·9	57·8	+ 0·9	111	0	3	0·58	- 0·23	24·7	- 6·3	22	- 6	Glasgow.
	p Rothesay .. S	71	6th	43	3rd, 5th	65·1	49·0	56·6	- 0·6	102	0	3	0·53	- 0·48	*	*	*	*	*
	a Kilmarnock ..	70	6th	40	3rd	64·5	47·6	55·5	- 1·9	95	0	3	1·00	—	*24·0*	—	*22*	—	*Kilmarnock.*
	a Colmonell ..	78	6th	38	3rd	67·7	48·7	57·6	+ 0·4	109	0	2	0·21	- 0·62	*	*	*	*	*
	p Dumfries ..	73	7th	48	6th, 7th	64·7	52·3	58·1	- 0·1	113	0	4	0·18	- 0·62	*29·4*	—	*27*	—	*Dumfries*
	p Cally, Gatehouse	73	7th	39	3rd	65·6	48·4	56·5	- 0·5	102	0	3	0·68	- 0·28	*	*	*	*	*
	p Douglas	69	6th	46	3rd	62·9	49·6	55·9	- 1·1	97	0	2	0·12	- 0·70	51·9	+ 9·8	48	+ 9	Douglas.
																—		—	Hoylake.
7. a, ENGLAND, N.W. — b, NORTH WALES ..	*p* Aspatria	71	6th, 7th	43	3rd	63·2	49·8	56·1	- 0·6	99	0	2	0·14	- 0·79	35·0	—	32	—	Aspatria.
	p Newton Rigg ..	76	6th	43	3rd, 6th	67·3	47·9	57·0	+ 0·5	105	0	3	0·34	- 0·39	41·1	+ 3·8	37	+ 4	Newton Rigg.
	p Stonyhurst	75	6th	48	3rd, 7th	65·3	50·3	57·4	- 0·5	108	0	2	0·16	- 0·84	44·6	+ 7·3	41	+ 7	Stonyhurst.
	p Blackpool .. M	68	6th	42	3rd	63·1	49·3	55·8	- 3·1	97	0	0	0·00	- 0·73	51·6	+11·9	47	+11	Blackpool.
	p M'nch'ster, Prestwich	76	6th, 7th	45	3rd	68·4	49·4	58·3	- 0·2	114	0	1	0·41	- 0·39	*37·9*	+ *3·9*	*35*	+ *4*	*Prestwich.*
	a Liverpool (Bidston)	69	4th, 6th	51	3rd	63·3	53·7	58·2	- 1·0	113	0	1	0·25	- 0·39	*55·0*	—	*51*	—	*Liverpool.*
	a Hawarden Bridge ..	74	6th	48	3rd, 7th	67·5	51·8	59·2	- 0·9	120	0	0	0·00	- 0·57	*52·1*	+ *9·8*	*48*	+ *9*	*Southport.*
															63·8	—	*59*	—	*Rhyl.*
	p Llandudno .. M	72	7th	43	7th	66·4	48·6	57·0	- 2·5	105	0	1	0·29	- 0·28	62·7	+22·8	58	+21	Llandudno.
	a Holyhead	67	7th	50	3rd, 6th	63·0	52·3	57·3	- 0·9	107	0	1	0·28	- 0·55	57·8	—	54	—	Aberdovey.
	p Bettws-y-Coed	76	6th	40	3rd	67·0	47·9	56·9	- 2·0	104	0	1	0·32	—	49·8	—	46	—	Bettws-y-Coed.
															56·2	—	52	—	Aberystwyth.
8. a, SOUTH WALES .. — b, ENGLAND, S.W. ..	*a* Llangammarch Wells	80	6th	36	3rd	69·0	44·0	55·8	- 1·8	97	0	1	0·17	—	38·1	—	36	—	Llangammarch Wells.
	a Pembroke	77	7th	48	3rd	66·3	53·0	59·3	+ 0·8	121	0	2	0·24	- 0·36	60·6	+15·6	57	+15	Pembroke.
	a Cardiff	79	6th	45	3rd	69·7	50·4	59·5	- 1·1	123	0	1	0·46	- 0·39	*62·9*	—	*59*	—	*Cardiff.*
															56·6	+*10·9*	*53*	+*10*	*Tenby.*
	a Clifton	80	6th	48	3rd	70·8	53·0	61·4	- 0·2	136	0	1	0·52	- 0·18	*60·4*	—	*56*	—	*Clifton.*
	a Shaftesbury .. M	77	6th, 7th	48	2nd, 3rd	70·2	53·0	61·1	+ 1·6	134	0	1	0·03	- 0·60	*	*	*	*	*
	a Arlington	76	6th, 7th	43	5th	68·7	48·4	57·9	- 0·2	111	0	1	0·34	- 0·66	68·0	+20·3	64	+19	Newquay.
	a Cullompton .. M	80	6th, 7th	41	3rd	73·3	48·7	60·3	+ 0·2	128	0	1	0·09	- 0·58	54·2	+12·5	51	+12	Cullompton.
	a Portland Bill ..	74	7th	54	3rd	66·9	56·9	61·6	+ 1·1	137	0	1	0·01	—	*78·0*	—	*74*	—	*Weymouth.*
	p Plymouth	82	6th	47	4th	73·5	52·5	62·4	+ 1·4	143	0	0	0·00	- 0·64	66·5	+20·2	63	+19	Plymouth.
	p Falmouth	73	7th	50	4th	68·2	55·2	61·3	+ 1·1	135	0	1	0·01	- 0·69	69·5	+19·1	66	+18	Falmouth.
															71·7	+*23·0*	*68*	+*22*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	65	6th	48	3rd	61·9	52·6	57·0	+ 0·6	105	0	1	0·38	- 0·35	*	*	*	*	*
	a Blacksod Point ..	66	6th, 7th	52	2nd, 6th	63·1	54·7	58·7	+ 1·1	117	0	2	0·77	- 0·10	*	*	*	*	*
	p Markree Castle ..	74	6th	41	2nd, 6th	67·5	48·2	57·3	+ 0·6	107	0	2	0·07	- 0·80	41·4	+12·4	38	+11	Markree Castle.
	a Birr Castle	78	6th	43	2nd	70·1	49·9	59·4	+ 1·2	122	0	0	0·00	- 0·76	*41·0*	+ *9·4*	*38*	+ *9*	*Birr Castle.*
IRELAND, N. — b, East.	*p* Armagh	76	6th	45	3rd	68·1	51·1	59·1	+ 1·7	120	0	1	0·02	- 0·78	30·2	+ 0·4	28	0	Armagh.
	a Donaghadee ..	71	6th	47	3rd	64·3	51·1	57·3	- 0·4	107	0	3	0·08	- 0·64	*	*	*	*	*
10. IRELAND, S. — a, East.	*p* Dublin, City ..	72	4th	48	2nd	67·0	53·2	59·7	- 0·2	124	0	0	0·00	- 0·66	43·5	+ 6·0	40	+ 6	Phœnix Park.
	a Kilkenny	78	6th	39	6th	70·0	47·3	58·0	- 0·5	112	0	0	0·00	- 0·69	*	*	*	*	*
	a Waterford	75	6th, 7th	45	3rd	69·3	50·3	59·2	- 0·1	120	0	0	0·00	- 0·80	*	*	*	*	*
	a Birr Castle	78	6th	43	2nd	70·1	49·9	59·4	+ 1·2	122	0	0	0·00	- 0·76	41·0	+ 9·4	38	+ 9	Birr Castle.
IRELAND, S. — b, West.	*a* Foynes	75	5th	48	3rd, 6th	70·3	52·7	61·0	+ 2·3	133	0	0	0·00	- 0·80	*	*	*	*	*
	a Cahir .. .. M	78	6th	42	6th	70·5	49·3	59·2	+ 0·4	120	0	0	0·00	—	*	*	*	*	*
	a Killarney	81	6th	46	2nd	73·1	52·2	62·0	+ 3·5	140	0	1	0·01	- 0·87	*	*	*	*	*
	a Valencia	73	6th	46	3rd	68·4	51·7	59·6	+ 1·0	123	0	1	0·02	- 0·98	68·8	+34·4	64	+32	Valencia.
	a Roche's Point ..	72	7th	50	3rd	65·3	52·9	58·7	- 0·4	117	0	3	0·17	- 0·58	58·7	—	55	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	68	4th	56	3rd	66·3	58·3	62·1	+ 1·4	141	0	0	0·00	- 0·54	70·5	+20·1	67	+19	Scilly.
	a Jersey, St. Aubins ..	79	7th	45	4th	71·9	54·1	62·5	- 0·1	144	0	0	0·00	- 0·52	87·4	+31·9	83	+30	St. Heliers.
	a Guernsey	75	5th	49	4th	71·5	54·4	62·4	+ 1·0	143	0	0	0·00	- 0·54	81·6	+23·9	78	+23	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 65·9 hrs. (+14·0 hrs.), 62 % (+13 %); Bournemouth, 72·7 hrs., 69 %; Bognor, 76·0 hrs., 72 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	53·8	—
	— —				
	— —				
1.	Aberdeen	—	—	—	53·3
	Crathes	0	39	59·0	55·2
	Balmoral	1	28	—	—
	West Linton	1	30	—	—
	Marchmont	0	35	57·4	—
2.	Cockle Park	0	41	57·6	54·4
	Durham	0	42	—	—
	York	—	—	58·0	55·2
	Hull	0	42	57·9	55·0
	Lincoln	—	—	59·7	55·5
	Rauceby	0	44	61·0	56·0
3.	Norwich	0	38	—	—
	Yarmouth	—	—	62·3	59·6
	Lowestoft	0	43	62·0	58·8
	Cambridge	0	37	61·7	58·4
	Clacton-on-Sea	0	42	59·8	58·9
	Southend	0	49	61·9	—
	Tottenham	0	42	—	58·6
4.	Harrogate				
	Huddersfield	0	39	57·9	54·1
	Buxton				
	Sheffield	0	39	58·0	54·2
	Nottingham	0	44	59·5	56·7
	Birmingham	0	31	55·5	52·1
	Oxford	0	—	—	—
	Hereford	0	36	—	—
	Cirencester	0	42	—	—
5.	Margate	0	45	59·7	56·7
	Greenwich	0	37	—	—
	Westminster	0	43	—	—
	Kew	0	36	60·9	57·3
	Canterbury	0	42	59·2	57·7
	Tunbridge Wells	0	39	62·1	—
	Wisley	0	37	61·0	58·3
	Worthing	0	42	62·6	55·6
	Portsmouth	0	45	64·5	60·2
6.	Glasgow	0	39	—	—
	Rothesay	—	—	—	54·4
	Colmonel	0	35	—	—
	Dumfries	0	39	59·7	57·0
	Douglas	0	41	—	—
7.	Aspatria	0	36	—	—
	Newton Rigg	0	39	59·5	55·0
	Burnley	0	38	56·3	53·4
	Southport	0	35	61·4	59·8
	Manchester City	0	36	58·8	57·0
	Bettws-y-Coed	0	39	55·9	53·0
8.	Llangammarch Wells	0	31	58·9	54·4
	Cardiff	0	39	60·4	56·8
	Clifton	0	43	—	—
	Bath	—	—	62·7	58·7
	Plymouth	0	48	65·6	—
9.	Armagh	0	37	60·5	56·9
	Markree	0	35	61·5	56·5
10.	Dublin, Trin. Coll.	?	?	59·9	56·9
11.	Guernsey, Brooklyn	0	43	64·1	60·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	52	51	51·1
	Kirkwall	57	55	56·2
	Wick	52	52	52·0
SCOTLAND, E.	Cromarty	55	54	54·5
	Pennan Bay	60	56	58·0
	Aberdeen, Cove Bay	55	53	54·4
ENGLAND, N.E.	Burnmouth, Berwick	55	53	53·9
	Scarborough	59	53	55·7
ENGLAND, E.	Shipwash Lightship	62	59	60·4
	Margate‡	63	61	61·9
ENGLAND, S.E.	Eastbourne‡	64	61	62·3
SCOTLAND, W.	Lamlash	58	55	56·7
ENGLAND, N.W.	Ballantrae	56	55	55·1
	Port Erin	57	55	55·7
ENGLAND, S.W.	Newquay	61	60	60·3
	Plymouth‡	64	62	63·0
	Salcombe	60	56	58·3
IRELAND, N.W.	Sheephaven	61	58	59·8
	Teelin	62	58	60·5
IRELAND, S.W.	Cleggan	65	57	59·4
	Seafield	63	59	61·1
IRELAND, E.				

‡ Only one observation each day.

Additional Observations in the Upper Air.

REGISTERING BALLOON ASCENTS FROM MANCHESTER.

1			2		3		4		5		6			
Ditcham Park, Petersfield. June 3rd, 1.0 a.m.			Ditcham Park, Petersfield. June 3rd, 7.0 a.m.		Pyrton Hill, Oxon. June 3rd, 1.0 p.m.		Ditcham Park, Petersfield. June 3rd, 7 p.m.		Gloucester.* June 23rd, 12.27 p.m.		Pyrton Hill, Oxon. June 30th, 7.16 p.m.			
Height kms.	Pressure. Mm. Mgd.	Temp. A°	Pressure. Mm. Mgd.	Temp. A°	Pressure. Mm. Mgd.	Temperature. A°	Pressure. Mm. Mgd.	Temperature. A°	Pressure. Mm. Mgd.	Temperature. A°	Pressure. Mm. Mgd.	Temp. A°	Wind Direction and Velocity.	Height. Kms.
Ground	747 ·996	280	747 ·996	279·5	749 ·999	286	745 ·994	286	748 ·998	286	748 ·998	285	35°, 2	Ground.
0·5	716 ·955	280	717 ·956	278	718 ·958	281	? ?	?	704 ·938	282	717 ·956	282·5	330°, 8	0·5
1·0	672 ·896	279	674 ·898	279	676 ·901	276·5	670 ·893	276·5	661 ·881	278	673 ·897	280	320°, 11	1·0
1·5	632 ·843	279	633 ·844	278	636 ·848	279·5	630 ·840	276·5	621 ·828	275	633 ·844	278·5	325°, 12	1·5
2·0	593 ·791	277	594 ·792	277	597 ·796	279·5	593 ·791	274·5	583 ·777	271	596 ·795	277	340°, 9	2·0
2·5	557 ·742	274·5	558 ·744	272	562 ·750	277	560 ·747	273	548 ·731	267	560 ·747	274	340°, 9	2·5
3·0	525 ·700	270	523 ·697	271	528 ·704	276	526 ·701	271	514 ·685	265	524 ·698	272·5		3·0
3·5	— —	—	— —	—	— —	—	— —	—	— —	—	494 ·658	270		3·5
4·0	463 ·617	263	460 ·613	265	464 ·618	271·5	464 ·618	265	452 ·603	260 or 258	464 ·618	267		4·0
4·5	— —	—	— —	—	— —	—	— —	—	— —	—	435 ·580	264		4·5
5·0	407 ·542	257	404 ·538	260	408 ·544	266	409 ·545	257	396 ·528	253	407 ·542	263		5·0
5·5	— —	—	— —	—	— —	—	— —	—	— —	—	383 ·511	259		5·5
6·0	356 ·475	252	354 ·472	254	358 ·478	260	358 ·478	250	346 ·461	245	357 ·476	255		6·0
6·5	— —	—	— —	—	— —	—	— —	—	— —	—	333 ·444	252		6·5
7·0	310 ·413	244	308 ·411	245·5	313 ·417	253·5	313 ·417	243	300 ·400	239	312 ·416	247		7·0
7·5	— —	—	— —	—	— —	—	— —	—	— —	—	290 ·387	242		7·5
8·0	268 ·358	236	268 ·358	239	273 ·364	245	272 ·363	234·5	258 ·344	231	269 ·359	237		8·0
8·5	— —	—	— —	—	— —	—	— —	—	(234) (·312)	(225)	250 ·333	253		8·5
9·0	233 ·311	228	232 ·310	231	236 ·315	239	234 ·312	226	223 ·297	230 or 224	233 ·311	229		9·0
9·5	— —	—	— —	—	— —	—	— —	—	(206) (·275)	(231) or (223)	217 ·289	226		9·5
10·0	203 ·271	221	199 ·265	225	203 ·271	232·5	201 ·268	218	193 ·257	231 or 229	200 ·267	223		10·0
11·0	172 ·230	212·5	173 ·231	221	173 ·231	223	172 ·230	212 ?	166 ·221	232 or 230	172 ·230	222		11·0
12·0	147 ·196	213	147 ·196	222	149 ·199	223	146 ·195	220	143 ·191	233 or 231	148 ·198	226		12·0
13·0	125 ·167	215	127 ·169	225	128 ·171	227·5	125 ·167	218	123 ·164	232 or 230	127 ·169	228·5		13·0
14·0			108 ·144	228	111 ·148	227	107 ·142	221	107 142	232 or 228	109 ·145	228		14·0
15·0			93 ·124	225	95 ·127	227			92 ·123	231 or 227	93 ·128	228·5		15·0
16·0			80 ·107	224	82 ·110	226			79 ·105	232 or 227	81 ·108	228·5		16·0
17·0			68 ·091	225	70 ·093	228			68 ·091	232 or 227				17·0
18·0			59? ·079	225					59 ·079	231 or 229				18·0
19·0									50 ·067	231				19·0

No. **1.**—Balloon fell at Stratton Strawler, distant 250 km., direction N. 37° 30° E. (37½°). Mean Temperature Gradient (Ground to 11·0 km.) 0·61° per 100 metres. Lowest 212°·5 A from 11·0 to 11·4 km. The trace is badly scratched and cannot be followed beyond 13·2 km. No. **2.**—Balloon fell at Maidenhead, distant 70 km., direction N. 11° E. (11°). Mean Temperature Gradient (Ground to 11·5 km.) 0·52° per 100 metres. Lowest, 220°A at 11·5 km. Trace blurred in places and partly duplicated. The trace ran off the plate at 18 km. No. **3.**—Balloon fell near Northampton, distant 64 km., direction N. 5° E. (5°). Mean Temperature Gradient (Ground to 11·5 km.) 0·59° per 100 metres. Inversion of 3° 1,200 m. Lowest, 220°A at 11·5 km. Double trace, one from 1° to 4° C. below the other. The mean is taken. No. **4.**—Balloon fell at Kidlington, distant 99 km., direction N. 14° W. (346°). Mean Temperature Gradient (Ground to 10·5 km.) 0·69° per 100 metres. 217°A at 10·5 km. Trace indistinct from 11·0 to 11·5 km., and missing for the first 700 m. No. **5.**—Balloon fell near Marlborough, distant 59 km., direction S.E. by S. (146°). Mean Temperature Gradient (Ground to 8 km.) 0·69° per 100 metres. Readings entered to 8·5 and 9·5 km. refer to heights 8·7 and 9·3 km. respectively. Wind at surface (10 m.) South, 3 (Beaufort). Sky overcast. Ascent and descent traces differ considerably in places. Cannot say which figures refer to ascent. No. **6.**—Balloon fell near Havant, distant 85 km., direction S. (180°). Wind observations with two theodolites. Mean ascensional velocity, 2·5 mps. Mean Temperature Gradient (Ground to 10·6 km.) 0·60° per 100 metres. Lost in haze after 15 minutes. Lowest Temperature 221°A at 10·6 km. Maximum height, 16·3 km. Temperature, 228°·5 A.

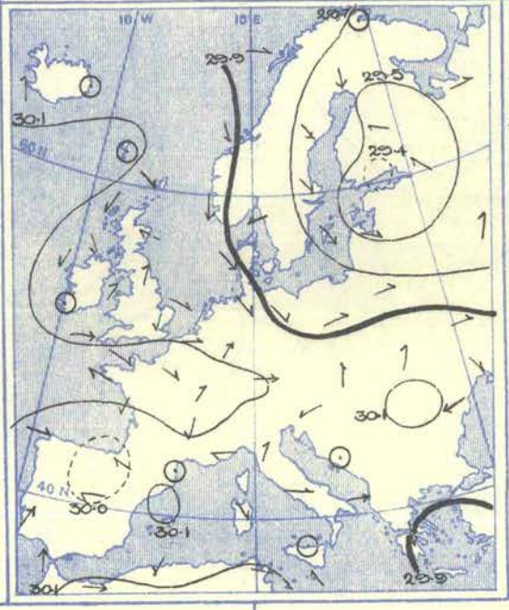
June 3rd. Ascents were also made from Ditcham Park at 1 p.m. and from Pyrton Hill at 7 a.m. The balloon from Pyrton Hill fell 69 km., N. 28° E. The instrument was lost, the case only being recovered. For observations of wind direction and velocity made on this date, see p. 204. Hourly ascents were made from Manchester on this date; 17 balloons have been recovered. Particulars will be given in due course.

* Communicated by the Royal Meteorological Society.

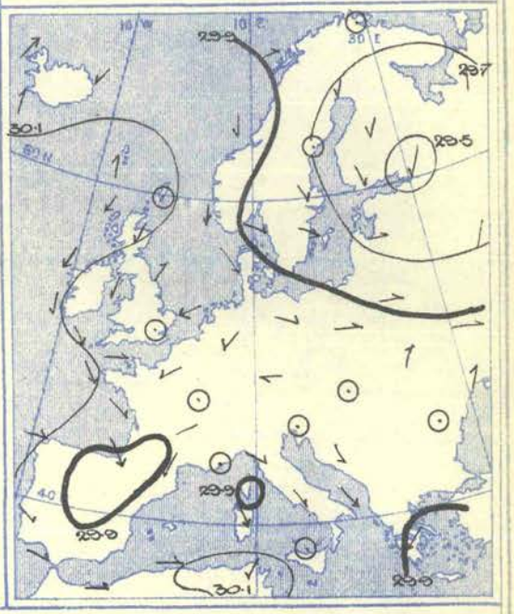
Sunday, 1st August, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning generally fine and bright over the countries bordering on the Mediterranean, mostly cloudy or dull over the British Isles and northern and western Europe, with rain at several of our own south-western and western stations, and in parts of Russia and Germany, and a thunderstorm at Haugö. Rather heavy rain during day in most parts of England, largest measurement, 2·68 ins. at Hull.

Temperature fallen over Portugal, the greater part of these Islands, and in south-eastern Europe, changed irregularly elsewhere. Readings at 7 a.m. ranging from about 50° to the northward of Scotland, and between 52° and 60° over these Islands, Scandinavia, Germany, and Russia generally, to above 70° over the southern countries, and to above 90° in Greece. Maxima during day below 70° at nearly all our own stations, but above 90° at many stations in southern Europe; highest of all, 95° at Madrid and 97° at Patras.

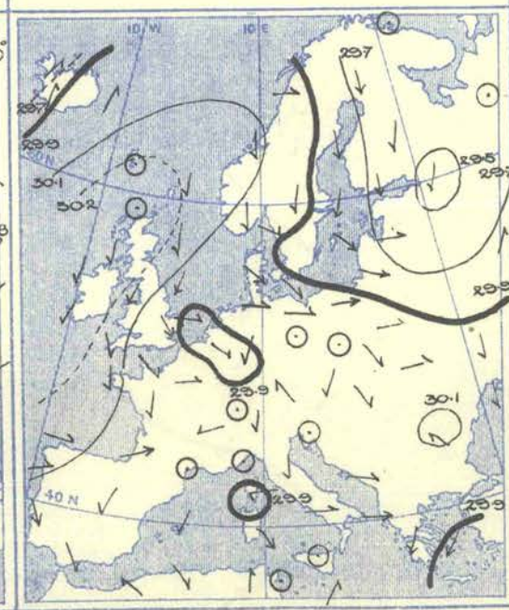
Wind in morning very variable in these Islands, but generally light from North or East in the north, and from South-West to North-West in the south. Mostly Westerly or North-Westerly over the Continent, fresh in force in some places, and high locally from North-East in Greece. Variable over the Mediterranean. Remaining very variable over England all day, but Northerly current on our western and northern coasts becoming more decided.

Barometer at 7 a.m. highest, 30·1 ins. and upwards, in an irregular belt stretching in from the Atlantic over the Channel and northern France to central Germany, and in another centre over Austria; lowest, 29·4 ins. and less, over the Gulf of Finland, 29·9 ins. over Greece, and 30·0 ins. and less over Spain. Very shallow system, with readings about 30·0 ins., shown over our northern districts. Latter disturbance moving southwards during day, and becoming better developed.

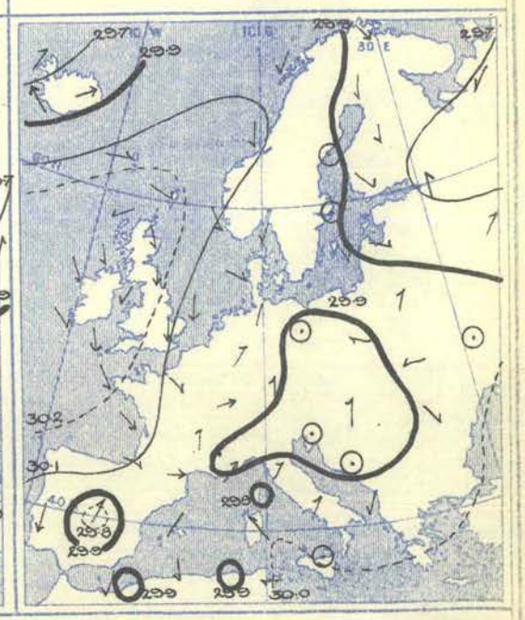
Monday, 2nd August, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine generally over southern Europe and the Mediterranean region, as well as at most of the Irish stations and in parts of Scandinavia and Russia, cloudy or dull over Great Britain and the nearer Continental countries, with rain in the Low Countries and at Spurn Head. Rain during day at our eastern and south-eastern stations, and from thence to eastern France and Central Germany and Switzerland, and also at many of the Russian stations; about an inch measured at Warsaw and Berlin, and as much as 3·1 ins. at Lugano.

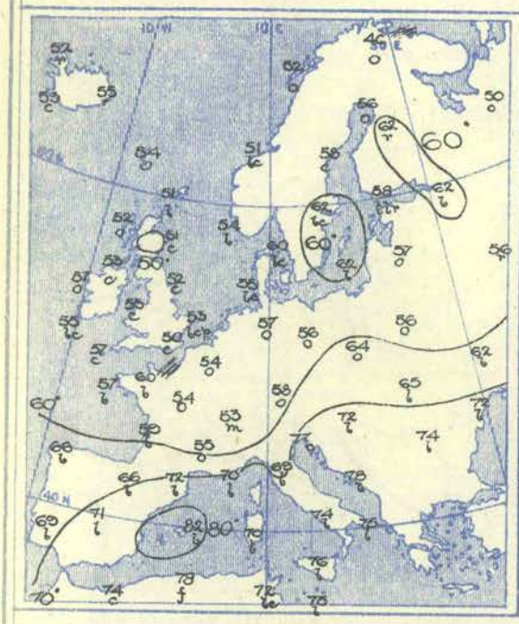
Temperature fallen slightly in most parts of western Europe, risen a little in the east. Readings at 7 a.m. ranging from about 50° in the extreme north of Scotland, and between 55° and 60° over Ireland, England, and the northern half of the Continent generally, to above 70° in the southern countries, and to above 80° in Greece. Not reaching 70° in any part of our Islands during day, and remaining below 60° in many places; maxima of about 90° in some southern countries, and as high as 95° at Bucharest.

Wind Northerly over Scandinavia, the British Isles, and west of France, light in force generally, but fresh at some of our own stations, Westerly, light or moderate, over Germany and the Baltic, mostly light and variable over the remainder of the Continent, but a high wind from North-East in Greece. No material change during day.

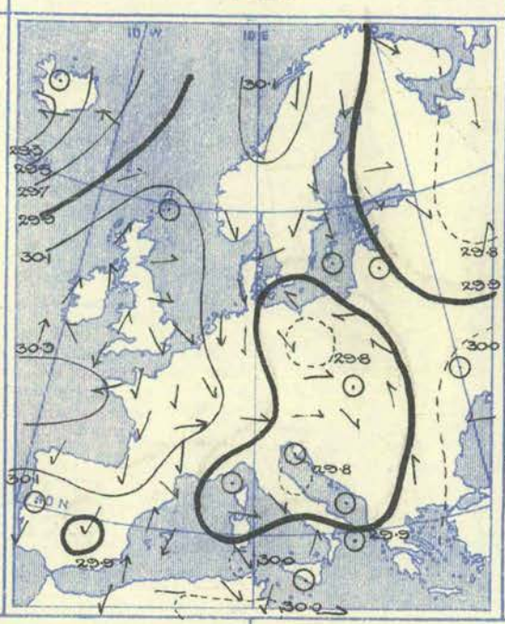
Barometer in morning highest, 30·2 ins., in an anticyclone on the Atlantic, and embracing Ireland and Scotland, 30·1 ins. over Austria-Hungary; lowest, 29·5 ins. and less, in a depression near St. Petersburgh; 29·9 ins. in another system over Greece, and about the same value over Corsica; 29·8 ins. and less in new low pressure area off the west of Iceland. Russian depression moving eastwards during day, and that to the westward of Iceland advancing.

Tuesday, 3rd August, 1909.

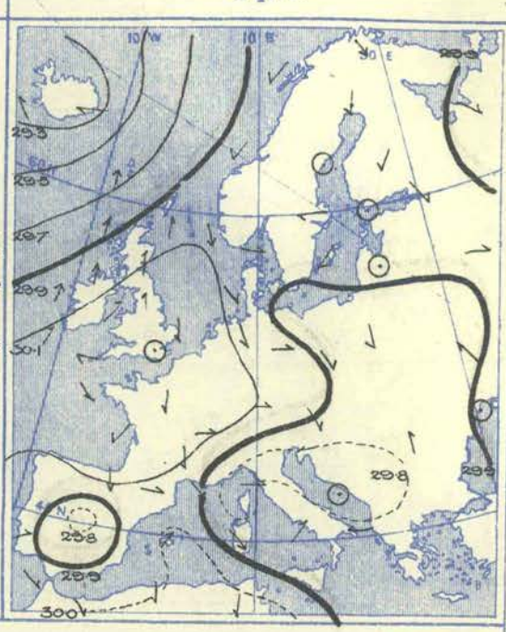
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over all the countries bordering on the Mediterranean, and in south-eastern Europe; fair to cloudy over the British Islands, and the northern and central parts of the Continent, with rain at Swinemünde and Vienna, and showers at Yarmouth. Rain during day over the northern parts of Great Britain and Ireland, and in several parts of Russia and Austria; largest measurements, 0·5 in. at Wick and 0·6 in. at Trieste.

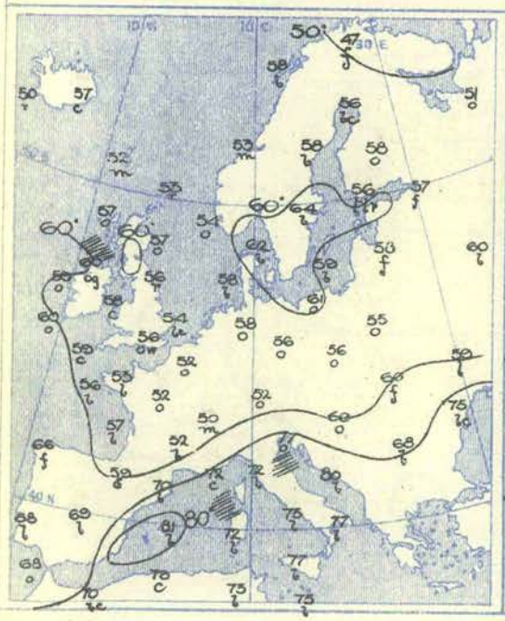
Temperature risen in Austria, fallen in most other parts of our area. Readings at 7 a.m. below 50° in the far north, and below 55° over these Islands generally; above 70° in most of the southern countries, and above 80° at a few of the Spanish stations. Not touching 70° during day at any of our own stations, but maxima of 85° to 90° general in the southern countries, and as high as 106° and 108° at Biskra and Laghouat (Algeria).

Wind in morning South-Easterly to South-Westerly over Iceland and at our extreme western stations, North-Westerly or Northerly over Great Britain and northern and western Europe, variable in the eastern and southern countries; light or moderate in force everywhere. South-Westerly wind increasing considerably over our western districts during day, no change elsewhere.

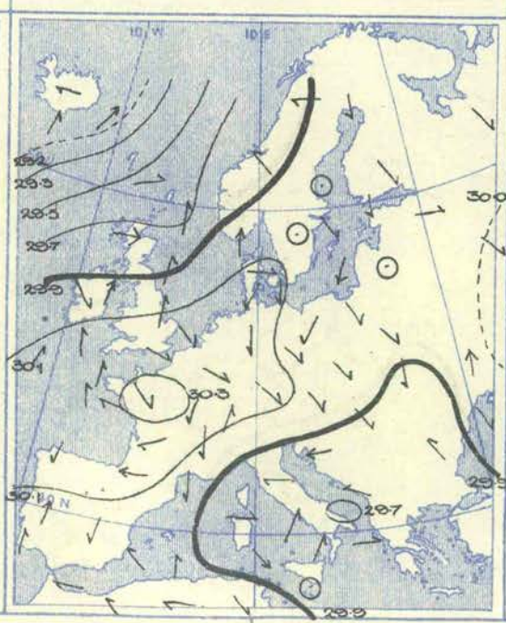
Barometer in morning highest, 30·2 ins. to 30·3 ins., over our Islands and the north of France; lowest, 29·3 ins. and less, in a depression to the south-westward of Iceland, and about 29·8 ins. in numerous shallow disturbances over northern Russia, central Europe, and central Spain. Icelandic depression moving eastwards during day, causing a fall of the barometer on all our northern and western coasts.

Wednesday, 4th August, 1909.

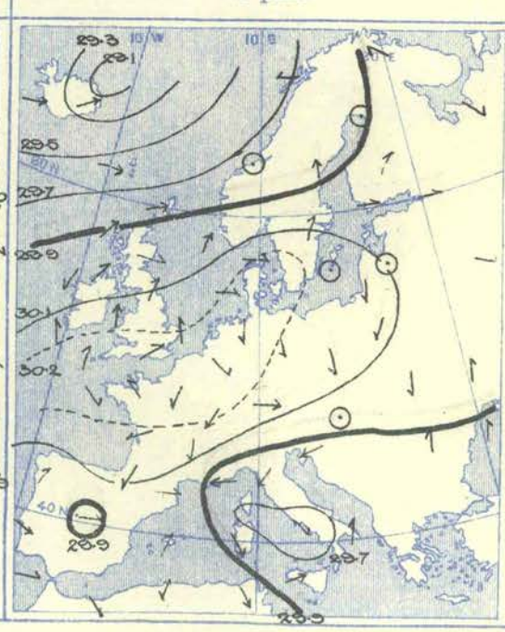
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of France, and over all the southern and eastern parts of the Continent, as well as in Scandinavia, cloudy or dull in Iceland, over these Islands and Germany, with rain in the west of Iceland, in the Shetlands and Hebrides, as well as in western Germany. Rain general during day in Norway, Scotland, and the north of Ireland, and also in central Europe and northern Italy; as much as ¾ inch at Blacksod Point and Vienna.

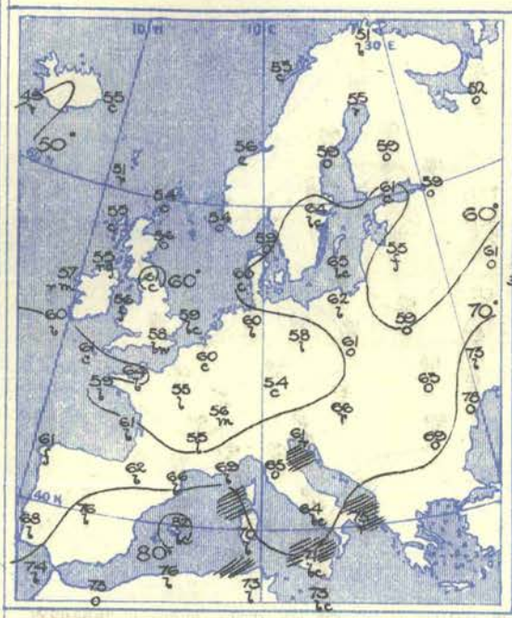
Temperature risen in Scandinavia and over the British Islands, briskly in Scotland, fallen in most Continental countries. Morning readings ranging from between 55° and 60° at most of our own stations, and over the northern, western, and central parts of the Continent, to 70° and above in most of the southern countries, and to above 80° in a few places. Exceeding 70° during day in many parts of Great Britain, 75° at Aberdeen; maxima again high in southern Europe, about 90° in several places, and as high as 110° at Laghouat (Algeria).

Wind in morning light and variable over the Continent generally, but a high East-North-East wind locally at Trieste; South-Westerly, light or moderate, over Iceland and the British Islands as a whole. Wind veering in Iceland during day, and backing more to the Southward in Great Britain; increasing to a strong breeze at Holyhead. Wind increasing also over Italy and the neighbouring islands.

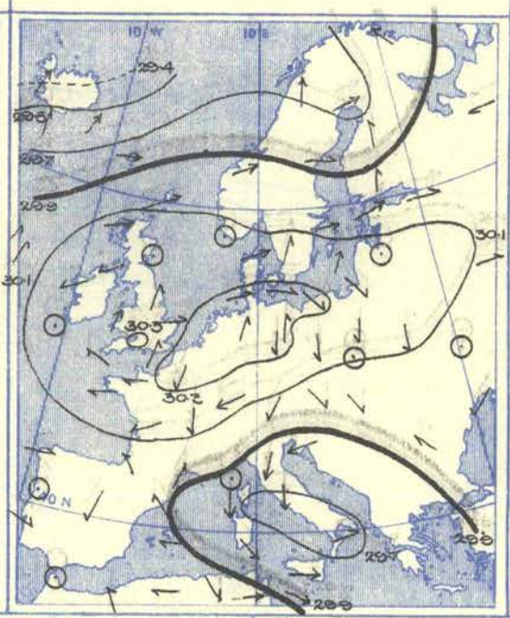
Barometer at 7 a.m. highest, 30·2 ins. to 30·3 ins., in an anticyclone embracing the southern half of Great Britain, the Channel and Bay of Biscay, with the greater part of France and the Low Countries. Lowest, below 29·2 ins., in Iceland, and below 29·8 ins. over Italy, southern Austria, and the Riviera. Depression over Iceland moving away towards the Arctic Circle during day, and barometer rising briskly on our extreme north-west coasts. Disturbance over Italy growing deeper.

Thursday, 5th August, 1909.

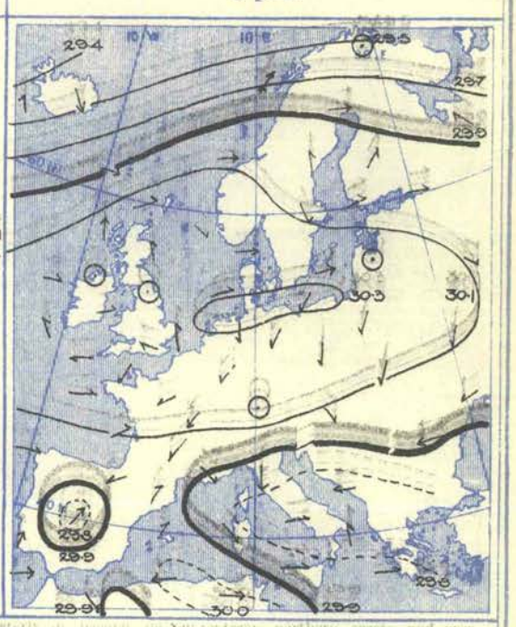
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning cloudy over Scandinavia, northern Russia, Poland, Austria, and the Adriatic, as well as in some parts of Scotland and northern Ireland, with rain in the latter region and at several stations in Austria and Italy, fine and bright over southern Ireland, England, and other parts of the Continent, but foggy on the Welsh coasts, and mist locally elsewhere. Slight rain during day at several of our northern and north-western stations, and larger amounts at places in Scandinavia and southern Europe; measurement at Bodö 0·9 in., and at Lesina 0·8 in.

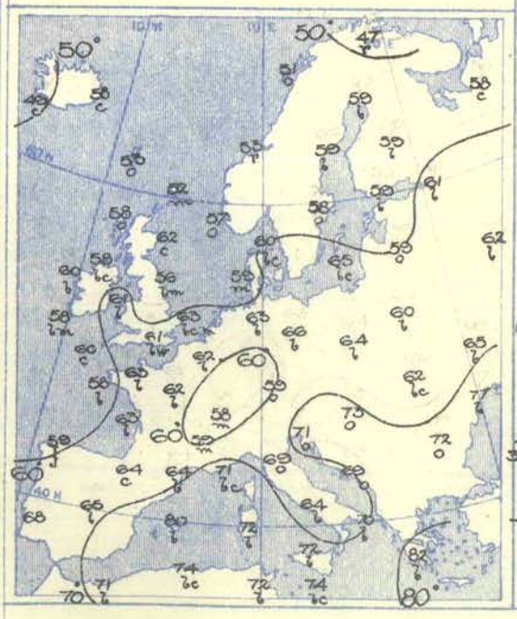
Temperature changed irregularly over our Islands, risen slightly over the Continent as a whole, but fallen over Italy and the surrounding region. Readings at 7 a.m. ranging from below 50° at some stations in Iceland, and about 55° in Scotland, to above 60° over the southern countries, and to 82° at Palma. Maxima during day between 70° and 76° over central and southern England, between 85° and 90° over the Mediterranean region generally, and as high as 95° at Malta.

Wind Westerly or South-Westerly in Iceland, on our extreme northern coasts, and over Scandinavia and northern Russia; moderate generally, but fresh or strong in places; variable over our Islands and the central parts of the Continent. Cyclonic circulation over the Mediterranean, light to fresh generally, but strong from West at Malta. Wind decreasing at the latter station during day; not much change elsewhere.

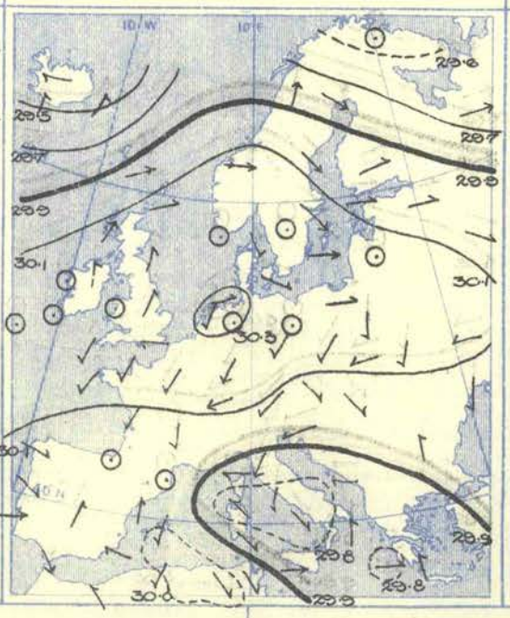
Barometer in morning highest, 30·2 ins. to 30·3 ins. and upwards, in an anticyclone extending from the west of Ireland across England and Germany to western Russia; lowest, 29·4 ins. and less, in a depression to the northward of Iceland, and 29·7 ins. and less in another system over Italy. Cyclonic system developing over Spain by evening, no other important change.

Friday, 6th August, 1909.

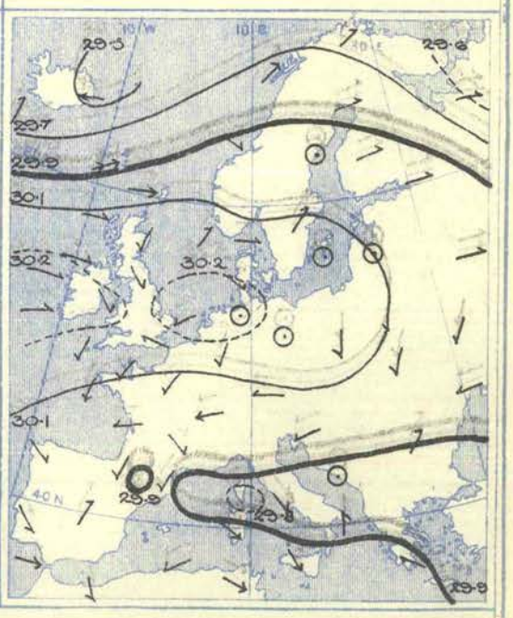
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fair to very fine and bright over the United Kingdom and in nearly all parts of the Continent, but dull, with some rain, in Norway. A little rain falling in Italy later, and almost an inch at Bodö, but conditions continuing very fine and dry generally.

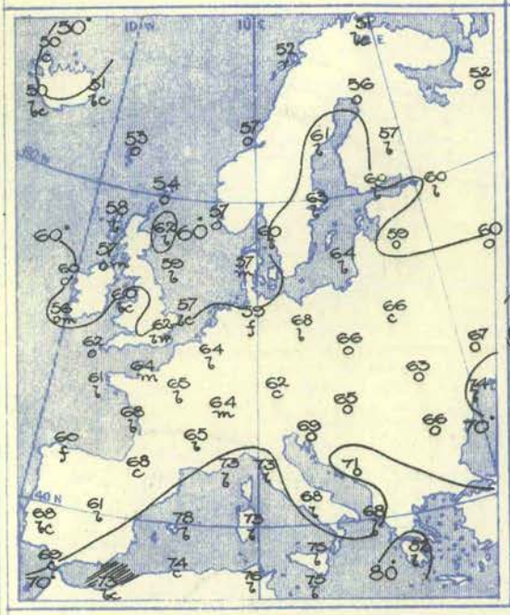
Temperature risen in most regions. Readings in morning above 60° in several parts of these Islands, and over the greater portion of the Continent, above 70° on some shores of the Mediterranean and in the neighbourhood of the Black Sea, and about 80° in places. Below 50° in the extreme north of Norway. Maxima during day between 75° and 80° over much of this country and central Europe, above 80° in France, and Italy, and above 90° in a few localities. Thermometer rising to nearly 70° in the north of Sweden.

Wind in morning mainly Westerly over all the more northern countries; light to moderate generally, but blowing a gale at Christiansund. Between East and North over the central countries, France, and the south of England, and light in force. A separate cyclonic movement existing over Italy and its vicinity. No important change later in day, but gale from the Westward setting in at Thorshavn.

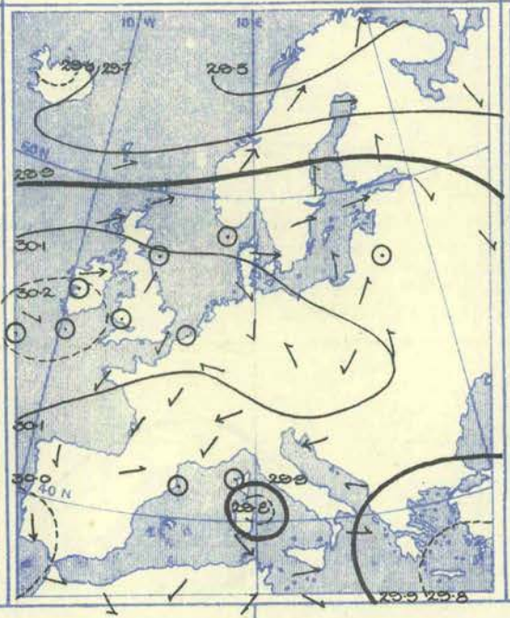
Barometer in morning above 30·2 ins. in a large area extending from beyond the west of Ireland to Poland; below 29·8 ins. in a depression over Italy and the Adriatic, and below 29·6 ins. in the Arctic regions of Norway, as well as in Iceland. Little change in the general distribution during day, but Icelandic low pressure moving eastward, and high pressure system giving way slightly.

Saturday, 7th August, 1909.

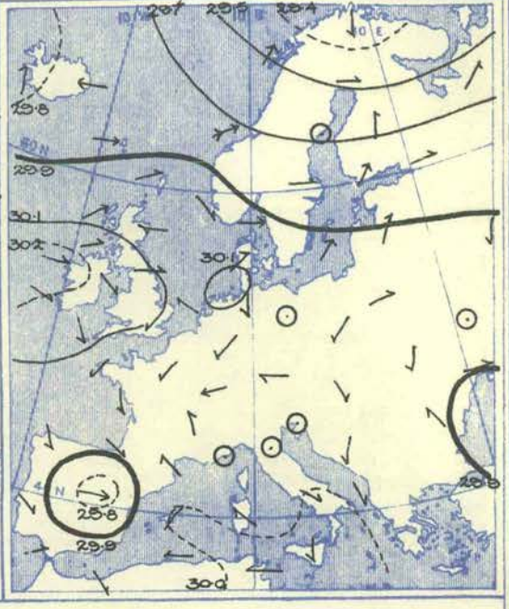
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



6 p.m.



Weather in morning continuing fine or fair very generally, but still overcast, with some rain in the west of Norway. Considerable falls of rain later in the west of Norway and in some parts of Spain and the south-west of France; a thunderstorm taking place at Bilbao and also at Biarritz.

Temperature risen somewhat over a considerable portion of our area, but changes rather irregular. Morning readings between 70° and 80° over southern Europe, above 65° at some German stations, and about 60° in the northern countries. Below 55° in the extreme north of our area. Rising to about 80° during day in various parts of England, the Low Countries, Germany, and Austria, and to between 80° and 90° or above in the south of France and over Italy and the Spanish Peninsula.

Wind in morning Westerly or South-Westerly over the north of these Islands and in Scandinavia, and fresh to strong in force in a few localities. Light and rather variable airs prevailing over the central and southern countries. Westerly current increasing in strength later in Scandinavia, and blowing a gale at Christiansund.

Barometer in morning above 30·2 ins. in Ireland, and above 30·1 ins. over these Islands generally, the North Sea, and Germany. Relatively low in the south of our area, and below 29·6 ins. in the far north. Very little modification occurring later in day in the general situation, but pressure giving way still further in the extreme north of the Continent.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). *See* also p. 252.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1909.												
1	August 2nd, 9.55 a.m. to 11.55 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	290° 58% 337°, 9	289° 58% 337°, 13	286° 68% 340°, 11	282° 70% 350°, 13				280° 78% 360°, 11	1,311	Quarter overcast. Cu.-Ni., lowest 750 m. Gusty, erratic wind.
2	August 2nd, 10.45 a.m. to 1.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 81% 360°, 6	283° 81% 12°, 9	283° 81% 16°, 10	278° 90% 28°, 14	277° 93% 16°, 15			276° 95% 12°, 16	1,680	Fair. Moderate breeze. Clouds, Ni. and Cu. 9. Two kites on one wire.
3	August 3rd, 10.20 a.m. to 12.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 86% 281°, 2	284° 84% 298°, 2	283° 83% 302°, 2·5	279° 94% 320°, 2·5				279° 93% 321°, 3	1,010	Fine, but hazy. Light breeze. Clouds, St.-Cu. and Ci. 9.
4	August 4th, 8.32 p.m. to 9.16 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 91% 225°, 1	286° 92% 230°, 2	285° 92% 240°, 2	279° 93% 264°, 3				277° 93% 254°, 2·5	1,200	Fine. Light air. Clouds, Cu. 2.
5	August 5th, 2.28 p.m. to 2.55 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	293° 53% 270°, 1·5	292° 52% 250°, 1	291° 50% 240°, 1	289° 28% 170°, 1	287° 17% 190°, 1			287° 15% 191°, 1	1,503	Very fine. Light air. Clouds, Ci. 5. Great fall in humidity with altitude.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5
No. of Kites or Balloons	1	2	1	1	1
Area of Surface (sq. metres) ..	7	15	—	—	—
Capacity of Balloon (cub. metres)	—	—	6·2	6·3	6·25
Length of Wire (metres)	2,000	2,700	800	1,000	1,300

Additional Ascents from the Howard Estate Observatory, Glossop.

Date 1909.	Time.	Maximum height. Metres.	Apparatus.	Date 1909.	Time.	Maximum height. Metres.	Apparatus.
August 2nd.	3.29 p.m. to 4.10 p.m.	690	Kite.	August 4th.	11.24 a.m. to 12.10 p.m.	610	Captive balloon.
August 3rd.	4.35 a.m. to 5.23 a.m.	792	Captive Balloon.	August 5th.	10. 3 a.m. to 11.15 a.m.	1,000	" "
" "	7.46 p.m. to 10.0 p.m.	567	" "	" "	10.47 a.m. to 11.21 a.m.	1,060	" "
August 4th.	9.40 a.m. to 1.30 a.m.	1,120	Kite.	" "	12. 0 p.m. to 12.34 p.m.	1,340	" "
" "	3.14 p.m. to 5.12 p.m.	610	"				

Ascents were attempted from Brighton on August 5th, but there was not sufficient wind to raise a kite.

63, Victoria Street, London, S.W. *August 11th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 32. THIRTY-SECOND WEEK, SUNDAY AUGUST 8TH TO SATURDAY AUGUST 14TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was very fine and bright over the Kingdom as a whole, but occasional rain was experienced in the extreme north and north-west. Thunder and lightning occurred in the south of England on the night of the 8th.

Temperature, was above the average, the excess amounting to more than 4° in most districts, and to more than 6° in England, S.W. The highest of the maxima were recorded on Thursday over the greater part of England, but earlier in the week at many Irish and Scottish stations; they ranged from 89° in England, S.W. (at Cullompton), 86° in England, S.E. and the Midland Counties, and 85° in England, E. and N.E., to 77° in Ireland, N. and to 71° in Scotland, N. The lowest of the minima, which were registered on rather variable dates, ranged from 40° in England, S.W., and 44° in England, S.E., to 48° in Ireland, S. and to 53° in the English Channel. The range of temperature during the week was large in most English localities,—more than 35° at many stations, and as much as 42° at Cullompton. The lowest grass temperatures reported were 34° at Llangammarch Wells, 40° at Greenwich, Birmingham and Cambridge, and 41° at Crathes and West Linton.

Mean Temperature of the Sea was considerably higher than during the preceding week on the south and south-west coasts, and as a whole it was warmer than during the corresponding week of last year. The actual figures ranged from 64°·6 at Margate, 63°·6 at Seafield and 63°·0 at Plymouth, to 53°·7 at Aberdeen, and to 52° at Wick and Lerwick.

Rainfall was less than the average. Over a large part of England the week was rainless, and in Ireland less than a tenth of an inch was recorded.

Bright **Sunshine** equalled the average in Scotland, N., but exceeded it elsewhere, the excess being very large generally. The percentage of the possible duration ranged from 78 in the English Channel, 75 in England, S.E., and 73 in England, S.W., to 47 in Scotland, E., 35 in Ireland, N., and to 23 in Scotland, N. The highest percentage at any individual station was 88 at Falmouth.

Barometer and Wind.—During the whole of the period the central portion of an anticyclone lay either over this country or in its immediate neighbourhood, and the winds were consequently light and rather variable. In the extreme north of the Kingdom, however, an occasional increase to the force of a strong breeze or high wind from the Westward was experienced under the influence of large and deep disturbances travelling eastwards over the Icelandic region.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 244.		DISTRICTS OF THE BRITISH ISLES.												
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Very unusual	Very unusual	Unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual
	Rainfall ...	Light	Light	Very light	Very light	Nought	Nought	Light	Very light	Nought	Very light	Very light	Nought
	Sunshine ...	Moderate	Very abundant	Very abundant	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant	Very abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER. 10 weeks from June 6th, 1909.	Warmth ...	1 * 5	1 * 6	1 * 6	1 * 7	1 * 5	1 * 8	1 * 5	1 * 6	1 * 6	1 * 4	1 * 4	1 * 7
	Rainfall ...	2 * 5	2 * 5	4 * 5	4 * 3	3 * 3	3 * 4	3 * 3	4 * 4	3 * 5	1 * 4	1 * 6	2 * 6
	Sunshine ...	3 * 2	4 * 2	1 * 6	3 * 5	3 * 5	3 * 5	2 * 3	3 * 4	4 * 3	2 * 3	3 * 3	4 * 3

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5

8066 450 Wy. & S. Ltd. 8—09.

SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-SECOND WEEK—August 8th to August 14th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	71	46	63·0	52·1	57·2	+ 2·4	106	+ 16	0	0	4	- 1	0·59	- 0·34	26	0	23	0
Eastern																		
1. SCOTLAND, EAST	80	45	71·2	51·6	60·8	+ 4·6	132	+ 32	0	0	2	- 2	0·19	- 0·52	51	+ 17	47	+15
2. ENGLAND, N.E.	85	47	74·0	54·1	63·4	+ 5·0	150	+ 35	0	0	2	- 1	0·08	- 0·52	65	+ 27	61	+25
3. ENGLAND, EAST	85	45	75·1	52·9	63·4	+ 3·2	150	+ 22	0	0	1	- 2	0·01	- 0·48	64	+ 21	61	+20
4. MIDLAND COUNTIES	86	47	78·4	52·8	64·8	+ 5·4	160	+ 38	0	0	0	- 3	0·00	- 0·54	70	+ 31	67	+30
5. ENGLAND, S.E.	86	44	78·1	55·5	66·1	+ 4·8	169	+ 34	0	0	0	- 3	0·00	- 0·46	78	+ 33	75	+31
Western																		
6. SCOTLAND, WEST	78	46	68·1	52·7	59·9	+ 3·1	125	+ 21	0	0	3	- 1	0·61	- 0·39	62	+ 26	57	+24
7. ENGLAND, N.W.	80	45	69·7	53·3	61·0	+ 2·4	133	+ 17	0	0	1	- 3	0·09	- 0·68	58	+ 21	54	+20
8. ENGLAND, S.W.	89	40	76·8	56·3	66·0	+ 6·4	168	+ 45	0	0	0	- 4	0·00	- 0·65	76	+ 33	73	+31
9. IRELAND, NORTH	77	45	69·1	55·0	61·6	+ 4·3	137	+ 30	0	0	2	- 2	0·09	- 0·80	37	+ 7	35	+ 7
10. IRELAND, SOUTH	80	48	72·8	54·6	63·1	+ 4·3	148	+ 29	0	0	1	- 3	0·03	- 0·89	57	+ 21	54	+20
11. ENGLISH CHANNEL	82	53	74·3	58·9	66·1	+ 4·3	169	+ 31	0	0	0	- 4	0·00	- 0·56	80	+ 23	78	+23

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 10 Weeks, June 6th to August 14th, 1909.

0. SCOTLAND, NORTH	71	35	*	*	*	*	783	- 65	0	- 2	44	+ 2	6·40	- 1·14	290	- 22	24	- 2
Eastern																		
1. SCOTLAND, EAST	80	30	*	*	*	*	880	- 76	0	- 1	35	- 1	5·47	- 0·64	388	+ 3	33	0
2. ENGLAND, N.E.	85	33	*	*	*	*	1019	- 55	0	0	34	+ 3	5·96	+0·82	366	- 62	32	- 5
3. ENGLAND, EAST	85	35	*	*	*	*	1093	- 113	0	0	34	+ 4	5·51	+0·57	423	- 47	38	- 4
4. MIDLAND COUNTIES	86	33	*	*	*	*	1068	- 108	0	0	32	+ 2	§ 5·77	+0·60	384	- 38	34	- 3
5. ENGLAND, S.E.	86	35	*	*	*	*	1137	- 128	0	0	30	+ 2	4·69	+0·03	447	- 37	40	- 3
Western																		
6. SCOTLAND, WEST	78	32	*	*	*	*	928	- 86	0	0	36	- 1	8·67	+0·90	425	+ 17	37	+ 1
7. ENGLAND, N.W.	80	32	*	*	*	*	985	- 127	0	0	35	+ 1	6·70	+0·36	400	- 24	35	- 2
8. ENGLAND, SW.	89	30	*	*	*	*	1098	- 75	0	0	32	- 1	5·31	- 0·78	479	+ 20	43	+ 2
9. IRELAND, NORTH	78	33	*	*	*	*	965	- 59	0	0	39	- 3	5·41	- 1·69	319	- 24	28	- 2
10. IRELAND, SOUTH	81	36	*	*	*	*	1093	- 41	0	0	32	- 4	4·36	- 2·46	380	- 4	34	0
11. ENGLISH CHANNEL	82	42	*	*	*	*	1208	- 56	0	0	23	- 10	2·62	- 2·23	595	+ 33	54	+ 3

THE YEAR.—Aggregates, &c., for the Period of 32 Weeks, January 3rd to August 14th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1212	- 84	535	- 22	147	+ 1	22·83	- 5·55	787	- 19	26	- 1
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*		1358	- 129	673	+ 53	122	+ 2	19·73	+2·36	932	- 21	31	- 1
2. ENGLAND, N.E.	85	14	*	*	*	*	1617	- 9	580	+105	108	0	15·31	+1·69	1023	- 6	35	0
3. ENGLAND, EAST	85	12	*	*	*	*	1762	- 135	554	+ 33	109	+ 4	13·64	+0·38	1187	+ 82	40	+ 3
4. MIDLAND COUNTIES	86	8	*	*	*	*	1788	- 107	642	+109	100	- 1	§ 14·58	- 0·30	1070	+ 81	36	+ 3
5. ENGLAND, S.E.	86	0	*	*	*	*	1839	- 193	482	+101	101	+ 2	14·59	+0·32	1264	+150	43	+ 5
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	1515	- 91	445	+ 20	119	- 7	26·19	+0·60	1030	+ 49	35	+ 2
7. ENGLAND, N.W.	80	10	*	*	*	*	1622	- 114	466	+ 80	112	- 3	18·63	0·00	1120	+125	38	+ 4
8. ENGLAND, S.W.	89	7	*	*	*	*	1783	- 155	390	+ 89	110	- 3	17·82	- 2·35	1225	+129	42	+ 4
9 IRELAND, NORTH	78	14	*	*	*	*	1637	- 47	315	- 30	138	+ 1	19·44	- 1·62	894	- 9	30	0
10. IRELAND, SOUTH	81	15	*	*	*	*	1918	- 35	265	+ 6	126	+ 4	19·85	- 2·49	1040	+ 34	35	+ 1
11. ENGLISH CHANNEL	82	25	*	*	*	*	2170	- 13	151	+ 42	101	- 19	14·68	- 2·09	1459	+133	50	+ 5

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
‖ Dew.
§ The corresponding value for last week altered owing to further information.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*59*	*8th*	*46*	*14th*	*56·4*	*49·6*	*52·8*	—	*76*	*0*	*6*	*0·60*	—	*24·9*	—	*22*	—	*Balta Sound.*
	a Sumburgh Head ..	57	8, 9, 12th	46	14th	56·1	48·7	52·2	0·0	71	0	6	0·49	- 0·14	18.8	- 9·7	17	- 9	Deerness.
	a Stornoway	63	8, 9, 11th	50	13th, 14th	61·6	53·4	57·3	+ 3·3	107	0	5	0·42	- 0·47	15·4	-15·6	14	-14	Stornoway.
	a Castlebay, Barra Isd.	*60*	*11th*	*51*	*8, 13, 14th*	*58·4*	*52·4*	*55·2*	*- 1·3*	*92*	*0*	*5*	*0·42*	—	*5·1*	—	*5*	—	*Castlebay.*
	a Wick	68	9th	47	13th	64·7	51·9	57·9	+ 3·5	111	0	3	0·41	- 0·34	*	*	*	*	
	p Strathpeffer.. ..	71	8th, 11th	50	13th, 14th	67·5	54·1	60·4	+ 4·9	129	0	3	0·12	- 0·48	35·2	+ 7·0	32	+ 6	Strathpeffer.
	p Glencarron ..	64	8th, 11th	48	14th	60·8	51·3	55·8	+ 2·1	97	0	5	1·09	- 0·43	*	*	*	*	
	p Fort Augustus	71	10th	47	13th	66·4	52·4	59·0	+ 3·3	119	0	2	0·37	- 0·41	32·5	+11·5	30	+11	Fort Augustus.
	p Fort William S	67	10th, 11th	49	14th	63·9	52·7	58·0	+ 1·8	112	0	5	1·31	- 0·04	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	75	10th	45	8th	70·6	50·6	60·0	+ 3·7	126	0	3	0·32	- 0·48	*38·4*	—	*35*	—	*Gordon Castle.*
	a Nairn	74	8th	48	13th	68·7	52·0	59·9	+ 3·7	125	0	4	0·10	- 0·45	38·9	—	35	—	Nairn.
	a Aberdeen	78	12th	50	13th	68·9	53·1	60·5	+ 4·5	130	0	2	0·23	- 0·40	47·8	+12·5	44	+12	Aberdeen.
	a Balmoral .. S	78	8th	46	8, 10, 13th	71·7	49·0	59·7	+ 6·3	124	0	1	0·05	- 0·72	44·2	—	41	—	Crathes S.
	p Crieff .. .. S	80	10th	47	13th	75·2	51·9	62·9	+ 5·4	146	0	2	0·08	- 0·79	49·2	—	45	—	Balruddery
	a Leith	76	8th	52	9, 13, 14th	71·7	54·9	62·8	+ 4·8	146	0	2	0·18	- 0·45	56·5	+23·6	52	+22	Edinburgh.
	a West Linton.. S	75	10th	45	9th, 13th	68·1	49·2	58·1	+ 3·2	113	0	2	0·42	—	*45·5*	—	*42*	—	*West Linton.*
	p Marchmont .. S	78	9th, 10th	48	8th	74·4	51·9	62·5	+ 6·7	144	0	1	0·10	- 0·67	67·7	+32·7	63	+30	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	75	9th, 11th	47	10th	71·5	52·0	61·2	+ 4·4	134	0	2	0·05	- 0·60	65·8	—	61	—	Cockle Park.
	a Shields	76	12th	51	14th	71·9	53·6	62·2	+ 4·5	141	0	3	0·25	- 0·35	*56·1*	*+25·2*	*52*	*+24*	*Newcastle.*
	p Durham	81	9th	48	8th, 10th	74·1	52·5	62·7	+ 4·8	145	0	2	0·13	- 0·46	69·4	+34·5	65	+32	Durham.
	p Rounton .. M	81	9th	48	8th	75·2	53·2	63·5	+ 6·2	151	0	2	0·06	- 0·58	*	*	*	*	
	p Scarborough.. M	79	12th	55	11th, 14th	73·3	56·9	64·6	+ 6·2	158	0	3	0·13	- 0·47	66·5	—	62	—	Scarborough.
	p York	82	9th	53	8th	76·7	54·9	65·2	+ 6·0	162	0	2	0·09	- 0·50	63·3	+27·3	59	+26	York.
— b, South.	*a* Spurn Head ..	75	12th	55	8, 9, 10, 11	67·4	56·4	61·6	+ 2·2	137	0	1	0·04	- 0·49	*	*	*	*	
	a Lincoln	85	12th	52	12th	76·9	53·8	64·7	+ 5·0	159	0	0	0·00	- 0·52	56·2	—	53	—	Skegness.
	a Fulbeck	84	12th	52	8, 12, 14th	78·6	53·3	65·2	+ 5·5	162	0	0	0·00	- 0·55	66·8	—	63	—	Rauceby.
															48·2	—	*46*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	84	12th	50	10th	70·0	53·0	61·0	+ 1·1	133	0	3	0·03	—	46·7	—	44	—	Cromer.
	p Hillington .. M	84	12th	49	10th	75·7	51·6	62·9	+ 3·0	146	0	2	0·06	- 0·58	53·9	+11·5	51	+11	Hillington.
	a Yarmouth	84	12th	48	11th	70·3	53·4	61·3	+ 1·0	135	0	0	0·00	- 0·55	52·7	—	50	—	Yarmouth.
	a Norwich	83	12th	47	11th	75·4	52·5	63·3	+ 3·2	149	0	0	0·00	—	*	*	*	*	
	p Geldeston	85	12th	45	11th	74·2	50·6	61·7	+ 2·0	138	0	0	0·00	- 0·51	57·9	+12·5	55	+12	Geldeston.
	p Cambridge	85	12th	49	9th	78·6	51·4	64·2	+ 4·4	155	0	0	0·00	- 0·53	67·7	+23·3	65	+22	Cambridge.
— b, South.	*a Felixstowe* ..	*80*	*12th*	*48*	*11th*	*69·7*	*53·6*	*61.2*	*+ 0·1*	*134*	*0*	*0*	*0·00*	—	*74·9*	—	*71*	—	*Felixstowe.*
	a Clacton-on-Sea ..	84	12th	50	11th	74·9	55·0	64·4	+ 3·4	157	0	0	0·00	—	76·5	—	74	—	Clacton.
	a Rothamsted ..	82	12th	49	8th	77·0	52·4	64·0	+ 4·5	154	0	0	0·00	- 0·56	77·6	+31·6	75	+30	Rothamsted.
	a Shoeburyness ..	*86*	*12th*	*49*	*11th*	*77·4*	*55·0*	*65·5*	*+ 3·0*	*165*	*0*	*0*	*0·00*	*- 0·39*	*78·6*	—	*76*	—	*Southend.*
	p Tottenham	85	12th	53	9th	80·0	56·3	67·4	+ 5·7	178	0	0	0·00	—	81·7	—	79	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	81	9th	53	8, 10, 14th	74·2	54·2	63·6	+ 6·1	151	0	1	0·01	- 0·61	68·5	—	64	—	Harrogate.
	a Bawtry	84	9th	50	8, 9, 12, 13, 14	78·7	50·4	63·7	+ 4·1	152	0	0	0·00	- 0·54	61·9	+27·2	58	+26	Worksop.
	p Buxton .. M	*79*	*8th, 9th*	*48*	*8th*	*74·8*	*49·9*	*61·6*	*+ 5·2*	*187*	*0*	*3*	*0·25*	*- 0·75*	*62·4*	—	*59*	—	*Buxton.*
	a Nottingham ..	85	12th	49	9th	77·7	52·4	64·3	+ 4·7	156	0	0	0·00	- 0·55	74·5	—	70	—	Nottingham.
	p Birmingham, Edgbsn	84	12th	54	11th	78·2	55·9	66·4	+ 7·7	171	0	0	0·00	- 0·58	58·8	—	56	—	Birmingham.
	a Raunds .. M	86	12th	47	9th	78·5	51·5	64·2	+ 3·8	155	0	0	0·00	—	*	*	*	*	
	a Oxford	85	12th	52	9th	79·6	55·1	66·6	+ 6·0	172	0	0	0·00	- 0·53	78·3	+34·9	75	+34	Oxford.
— b, West.	*a* Cheadle .. M	80	9th, 12th	52	11th	76·5	53·7	64·4	+ 7·0	157	0	1	0·01	- 0·74	63·5	—	60	—	Sheffield.
	p Shrewsbury	85	12th	47	10th	78·6	50·6	63·8	+ 4·7	153	0	1	0·01	—	*	*	*	*	
	a Hereford .. M	86	12th	49	8th, 12th	80·5	51·5	65·1	+ 5·7	162	0	0	0·00	- 0·54	*	*	*	*	
	a Cirencester	85	12th	50	12th, 13th	79·5	51·9	64·9	+ 6·4	160	0	0	0·00	- 0·66	79·8	+37·0	77	+36	Cirencester.
	a Bath	84	12th	49	8th	80·1	53·9	66·2	+ 6·2	169	0	0	0·00	- 0·61	78·2	—	75	—	Bath.
															74·1	—	*71*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	*p* Kew	84	12th	53	8th	78·6	56·1	66·7	+ 5·5	173	0	0	0·00	- 0·50	79·2	+34·8	76	+34	Kew.
	a Marlborough ..	85	12th	44	9th	80·7	48·3	63·5	+ 4·7	151	0	0	0·00	- 0·56	79·1	+37·9	76	+37	Marlborough.
	a Margate	83	12th	53	11th	73·3	58·7	65·6	+ 3·7	165	0	0	0·00	- 0·45	63·0	+18·0	61	+17	Margate.
	a Wisley, Surrey ..	86	12th	50	10th	80·3	52·3	65·5	+ 3·8	165	0	0	0·00	—	75·5	—	73	—	Wisley.
	a Swarraton .. M	85	12th	49	10, 12, 13th	80·2	51·4	64·9	+ 5·6	160	0	1	0·01	- 0·58	88·1	—	80	—	Worthing.
	a Tunbridge Wells M	84	12th	51	11th	79·0	54·8	66·2	+ 6·1	169	0	0	0·00	- 0·50	81·9	+36·4	79	+35	Tunbridge Wells.
	a Dungeness	75	9th	50	11th	71·6	56·7	63·7	+ 2·7	152	0	0	0·00	- 0·43	77·7	—	75	—	Littlestone.
	p Hastings	78	8, 9, 10, 13	54	11th	75·8	58·7	66·7	+ 5·5	173	0	0	0·00	- 0·53	*84·5*	*+33·9*	*81*	*+33*	*Hastings.*
	p Southampton ..	85	12th	56	8, 11, 12, 13	82·9	57·0	69·2	+ 6·9	190	0	0	0·00	- 0·57	79·9	+31·5	77	+30	Southampton.
	a Ventnor	82	9th, 12th	58	14th	78·1	60·6	68·8	+ 6·6	188	0	0	0·00	- 0·47	77·0	+29·7	74	+29	Ventnor.
															82·1	+32·4	79	+31	Eastbourne.
LONDON	*a Westminster* ..	*85*	*12th*	*56*	*9th, 11th*	*80·6*	*57·7*	*68·5*	*+ 7·2*	*186*	*0*	*0*	*0·00*	*- 0·52*	*80·9*	*+41·4*	*78*	*+40*	*Westminster.*
	a Greenwich	*86*	*12th*	*52*	*8, 10, 11th*	*80·8*	*54·1*	*66·7*	*+ 4·0*	*173*	*0*	*0*	*0·00*	*- 0·51*	*81·5*	*+31·0*	*78*	*+30*	*Greenwich.*
6. — a, SCOTLAND. W. ..	*p* Laudale	69	10th	51	9, 13, 14th	64·8	53·8	59·0	+ 2·5	119	0	5	2·20	+ 0·86	*	*	*	*	
	a Poltalloch .. S	66	8th	49	9th, 14th	63·9	52·6	57·9	+ 0·8	113	0	4	0·89	- 0·14	*	*	*	*	
	p Glasgow	73	10th	50	13th	67·9	53·2	60·1	+ 3·4	127	0	2	0·35	- 0·50	45·1	+14·5	42	+14	Glasgow.
	p Rothesay .. S	71	10th	49	10th, 13th	66·7	52·9	59·4	+ 2·4	122	0	3	0·74	- 0·32	*	*	*	*	
	a Kilmarnock ..	70	12th	47	8, 9, 13th	66·8	50·5	58·2	+ 1·1	113	0	2	0·45	—	*36·6*	—	*34*	—	*Kilmarnock.*
	a Colmonell ..	74	12th	46	9th	69·3	51·7	60·0	+ 2·9	126	0	2	0·47	- 0·42	*	*	*	*	
	p Dumfries ..	78	9th, 12th	51	8th, 9th	73·9	54·7	63·7	+ 5·8	152	0	2	0·13	- 0·72	*57·6*	—	*54*	—	*Dumfries*
	p Cally, Gatehouse S	74	9th	46	8th, 9th	71·1	51·6	60·8	+ 4·2	132	0	3	0·21	- 0·79	*	*	*	*	
— b, ISLE OF MAN ..	*p* Douglas	73	14th	51	9th, 11th	68·3	53·0	60·2	+ 3·3	127	0	2	0·02	- 0·85	78·2	+37·2	73	+35	Douglas.
															45·0	—	43	—	Hoylake.
7. — a, ENGLAND, N.W....	*p* Aspatria	75	9th	50	10th	69·5	53·0	60·8	+ 4·1	132	0	0	0·00	- 0·96	60·7	—	57	—	Aspatria.
	p Newton Rigg ..	80	8th	47	8th	74·1	51·7	62·2	+ 6·1	141	0	2	0·34	- 0·42	71·9	+35·9	67	+34	Newton Rigg.
	p Stonyhurst	74	9th	52	12th	68·5	53·9	60·8	+ 3·1	132	0	2	0·40	- 0·65	54·9	+18·9	52	+18	Stonyhurst.
	p Blackpool .. M	67	12th	51	9th, 10th	65·0	53·9	59·1	+ 0·4	120	0	2	0·03	- 0·73	44·7	+ 6·1	42	+ 6	Blackpool.
	p M'nch'ster, Prestwich	80	8th, 9th	51	10th	74·3	54·8	64·0	+ 5·9	154	0	3	0·09	- 0·74	*53·9*	*+20·6*	*50*	*+19*	*Prestwich.*
	a Liverpool (Bidston)	72	14th	53	12th	66·3	56·3	61·0	+ 2·3	133	0	0	0·00	- 0·67	*47·2*	—	*45*	—	*Liverpool.*
	a Hawarden Bridge ..	74	12th	51	9th	70·2	54·0	61·6	+ 1·6	137	0	0	0·00	- 0·63	*43·8*	*+ 3·1*	*41*	*+ 3*	*Southport.*
															51·5	—	*49*	—	*Rhyl.*
— b, NORTH WALES ..	*p* Llandudno .. M	75	12th	45	10th	70·3	48·2	58·6	- 0·8	116	0	0	0·00	- 0·63	60·8	+21·8	57	+21	Llandudno.
	a Holyhead	71	14th	53	11th, 12th	65·1	54·9	59·7	+ 1·2	124	0	2	0·02	- 0·64	55·2	—	53	—	Aberdovey.
	p Bettws-y-Coed ..	78	12th	46	10th	73·6	52·7	62·5	+ 3·5	144	0	0	0·00	—	67·9	—	64	—	Bettws-y-Coed.
															46·0	—	44	—	Aberystwyth.
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	81	12th	40	11th, 12th	72·2	46·8	61·1	+ 3·9	134	0	0	0·00	—	61·9	—	59	—	Llangammarch Wells.
	a Pembroke	75	9th	52	11th	69·6	56·3	62·6	+ 4·0	144	0	0	0·00	- 0·63	87·6	+43·0	84	+41	Pembroke.
	a Cardiff	80	9th	53	8th, 11th	76·9	55·3	65·5	+ 5·1	165	0	0	0·00	- 0·91	*83·2*	—	*80*	—	*Cardiff.*
															86·3	*+40·9*	*83*	*+39*	*Tenby.*
	a Clifton	83	9th	55	8th	79·5	59·8	69·1	+ 7·8	190	0	0	0·00	- 0·74	*78·9*	—	*76*	—	*Clifton.*
	a Shaftesbury .. M	83	12th	57	8, 10, 13th	79·2	58·0	68·0	+ 8·7	182	0	0	0·00	- 0·66	*	*	*	*	
	a Arlington	81	12th	49	12th	76·6	53·9	64·6	+ 6·7	158	0	0	≡ 0·02	- 1·05	69·2	+22·2	67	+21	Newquay.
— b, ENGLAND, S.W. ..	*a* Cullompton .. M	89	12th	47	13th	83·3	52·8	67·1	+ 7·4	176	0	0	0·00	- 0·67	87·3	+45·9	84	+44	Cullompton.
	a Portland Bill ..	76	9th	60	8th, 11th	72·0	61·3	66·3	+ 5·6	170	0	0	0·00	—	*89·2*	—	*86*	—	*Weymouth.*
	p Plymouth	83	8th	52	13th	78·7	58·9	68·2	+ 7·5	183	0	0	0·00	- 0·64	88·6	+43·2	86	+42	Plymouth.
	p Falmouth	77	9, 12, 14th	59	13th, 14th	75·3	60·1	67·2	+ 7·1	176	0	0	0·00	- 0·72	90·8	+41·2	88	+40	Falmouth.
															88·9	*+40·5*	*86*	*+39*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	65	9, 10, 11th	53	14th	63·6	55·0	59·0	+ 2·5	119	0	2	0·36	- 0·42	*	*	*	*	
	a Blacksod Point ..	68	11th	55	9th	66·0	58·1	61·8	+ 4·4	139	0	4	0·10	- 0·90	*	*	*	*	
	p Markree Castle ..	75	14th	45	11th	70·4	53·8	61·6	+ 5·1	137	0	1	0·04	- 0·99	30·4	+ 1·0	28	+ 1	Markree Castle.
— b, East.	*a* Birr Castle	77	11th	50	11th	73·4	54·3	63·3	+ 5·4	149	0	1	0·01	- 0·82	*45·6*	*+13·4*	*43*	*+13*	*Birr Castle.*
	p Armagh	74	14th	50	8th	73·3	55·2	63·7	+ 6·7	152	0	1	0·03	- 0·81	43·6	+13·4	41	+13	Armagh.
	a Donaghadee	75	12th, 14th	50	8th	67·7	53·7	60·3	+ 2·8	128	0	0	0·00	- 0·75	*	*	*	*	
10. IRELAND, S. — a, East.	*p* Dublin, City.. ..	77	12th	52	9th	71·1	57·2	63·7	+ 4·0	152	0	2	0·11	- 0·59	55·8	+18·4	53	+17	Phœnix Park.
	a Kilkenny	80	11th	48	12th	75·7	53·4	63·9	+ 5·6	153	0	0	0·00	- 0·77	*	*	*	*	
	a Waterford	79	12th	49	11th	75·9	53·9	64·2	- 5·3	155	0	0	0·00	- 0·83	*	*	*	*	
	a Birr Castle	77	11th	50	11th	73·4	54·3	63·3	+ 5·4	149	0	1	0·01	- 0·82	45·6	+13·4	43	+13	Birr Castle.
— b, West.	*a* Foynes	74	8th	51	11th	69·4	55·5	62·0	+ 3·4	140	0	3	0·03	- 0·86	*	*	*	*	
	a Cahir .. .. M	77	12th	49	12th	74·8	54·4	64·0	+ 5·5	154	0	0	0·00	—	*	*	*	*	
	a Killarney	80	8th, 11th	48	10th	77·1	53·5	64·6	+ 6·3	158	0	1	0·01	- 0·98	*	*	*	*	
	a Valencia	68	8th, 9th	48	11th	67·0	52·9	59·5	+ 0·9	123	0	2	0·06	- 1·04	53·8	+18·8	51	+18	Valencia.
	a Roche's Point ..	76	12th	54	10th, 12th	70·6	56·3	63·0	+ 4·1	147	0	2	0·04	- 0·79	72·8	—	70	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	68	8th, 14th	59	11th	66·4	60·3	63·2	+ 2·5	148	0	1	0·02	- 0·53	73·1	+21·7	71	+21	Scilly.
	a Jersey, St. Aubins ..	82	8th, 12th	53	10th	78·6	58·1	67·7	+ 5·1	180	0	0	0·00	- 0·54	80·9	+25·5	79	+25	St. Heliers.
	a Guernsey	82	12th	55	11th, 12th	77·8	58·2	67·4	+ 5·9	178	0	0	0·00	- 0·58	86·9	+30·2	84	+29	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 84·4 hrs.* (*+33·6 hrs.*), *81 %* (*+32 %*); *Bournemouth, 89·6 hrs., 86 %*; *Bognor, 84·4 hrs..81 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound	—	—	54·1	—
	— —				
	— —				
1.	Aberdeen	—	—	—	54·3
	Crathes	0	41	61·6	56·4
	Balmoral	0	42	—	—
	West Linton	0	41	—	—
	Marchmont	0	42	61·4	—
2.	Cockle Park	0	45	61·7	56·4
	Durham	0	45	—	—
	York	—	—	61·6	56·4
	Hull	0	48	62·6	55·0
	Lincoln	—	—	63·4	56·8
	Rauceby	0	?45	65·3	56·8
3.	Norwich	0	45	—	—
	Yarmouth	—	—	65·4	60·3
	Lowestoft	0	46	64·2	59·8
	Cambridge	0	40	64·5	59·6
	Clacton-on-Sea	0	42	63·4	59·9
	Southend	9	54	65·7	—
	Tottenham	0	50	—	59·5
4.	Harrogate	0	47	58·8	55·5
	Huddersfield	0	45	62·6	54·8
	Buxton	0	45	62·0	53·4
	Sheffield	0	44	62·0	55·0
	Nottingham	0	48	63·9	58·8
	Birmingham	0	40	59·1	52·9
	Oxford	0	—	—	—
	Hereford	0	40	—	—
	Cirencester	0	42	—	—
5.	Margate	0	47	62·1	57·7
	Greenwich	0	40	—	—
	Westminster	0	50	—	—
	Kew	0	44	63·8	58·0
	Canterbury	0	44	62·1	57·9
	Tunbridge Wells	0	49	65·7	—
	Wisley	0	44	64·2	59·5
	Worthing	0	49	66·0	59·6
	Portsmouth	0	48	67·8	61·4
6.	Glasgow	0	44	—	—
	Rothesay	—	—	—	55·0
	Colmonel	0	43	—	—
	Dumfries	0	48	63·0	58·3
	Douglas	0	47	—	—
7.	Aspatria	0	44	—	—
	Newton Rigg	0	43	62·8	56·1
	Burnley	0	45	60·2	54·1
	Southport	0	45	65·3	60·9
	Manchester City	0	45	61·9	57·4
	Bettws-y-Coed	0	46	57·7	53·4
8.	Llangammarch Wells	0	34	62·1	55·1
	Cardiff	0	45	64·3	58·0
	Clifton	0	51	—	—
	Bath	—	—	65·9	59·9
	Plymouth	0	49	66·5	—
9.	Armagh	0	45	62·8	57·7
	Markree	0	43	64·0	57·2
10.	Dublin, Trin. Coll.	0	45	62·9	57·8
11.	Guernsey, Brooklyn	0	48	66·3	61·6

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	52	52	52·0
	Kirkwall	57	56	56·6
	Wick	52	52	52·0
SCOTLAND, E.	Cromarty	55	54	54·7
	Pennan Bay	61	58	59·9
	Aberdeen, Cove Bay	56	50	53·7
ENGLAND, N.E.	Burnmouth, Berwick	57	55	55·8
	Scarborough	62	54	56·8
ENGLAND, E.	Shipwash Lightship	63	60	61·7
	Margate‡	66	64	64·6
ENGLAND, S.E.	Eastbourne‡			
SCOTLAND, W.	Lamlash	60	56	58·0
	Ballantrae	58	56	56·9
ENGLAND, N.W.	Port Erin	61	56	57·7
ENGLAND, S.W.	Newquay	62	61	61·4
	Plymouth‡	63	62	63·0
	Salcombe	61	59	60·6
IRELAND, N.W.	Sheephaven	62	60	61·0
	Teelin	64	61	62·6
IRELAND, S.W.	Cleggan	63	59	61·2
	Seafield	66	61	63·6
IRELAND, E.				

‡ Only one observation each day.

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1909.	Station.	Wind Direction (in Degrees, E = 90°, S = 180°, W = 270°, N = 360°) and Velocity, Metres per Second.																	
			Ground Level.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres	4,000 metr's.	4,500 metr's.	5,000 metr's.	5,500 metr's.	6,000 metres.	7,000 metr's	8,000 metr's.	9,000 metr's.	10,000 metr's.	11,000. metres	12,000 metr's.	13,000 metres.
1	August 6th, 8.0 p.m. to 8.18 p.m.	Howard Estate, Glossop. 335 m.	124°,1	30°, 4	320°, 7	280°, 9																
2	August 7th, 10.12 a.m. to 10.29 a.m.	Howard Estate, Glossop. 335 m.	318°, 3	315°, 5	310°, 6	315°, 5	300°, 6	280°, 7														
3	August 9th, 3.1 p.m. to 3.20 p.m.	Howard Estate, Glossop. 335 m.	275°, 2	284°, 6	305°, 6	305°, 6																
4	August 10th, 10.29 a.m. to 10.40 a.m.	Howard Estate, Glossop, 335 m.	100°, 4	125°, 4	175°, 3	90°, 1	318°, 3	315°, 5	315°, 5													

NOTES.—Nos. **1.**—Very fine, Light breeze, No clouds. At 1,530 m., 282°, 10.
2.—Very fine, Light breeze, Clouds Ci 4. At 2,840 m., 270°, 8.
3.—Very fine, Light breeze, No clouds but hazy. At 1,680 m., 301°, 6.
4.—Very fine, Light breeze, No clouds, but hazy. Complete reversal of wind direction between 1,200 m. and 1,500 m.

Additional Ascents from the Howard Estate Observatory, Glossop.

Date 1909.	Time.	Maximum height. Metres.	Apparatus used.	Date 1909.	Time.	Maximum height. Metres.	Apparatus used.
Mon., August 9th.	4.22 p.m. to 4.32 p.m.	1,220	Pilot Balloon.	Fri., August 13th.	11.15 a.m. to 1.20 p.m.	1,820	Kite.
Tues., August 10th.	3. 6 p.m. to 3.15 p.m.	2,200	" "	" " "	3·20 p.m. to 5. 5 p.m.	2,000	"
Wed., August 11th.	4.31 a.m. to 4.52 a.m.	600	Captive Balloon.	" " "	8. 5 p.m. to 10.0 p.m.	1,830	"
" "	8.28 p.m. to 9. 5 p.m.	640	" "	Sat., August 14th.	12.22 p.m. to 1.31 p.m.	1,760	"
Fri., Aug. 13th.	5.15 a.m. to 6.23 a.m.	1,600	Kite.				

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; → = a fresh to strong breeze; →a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

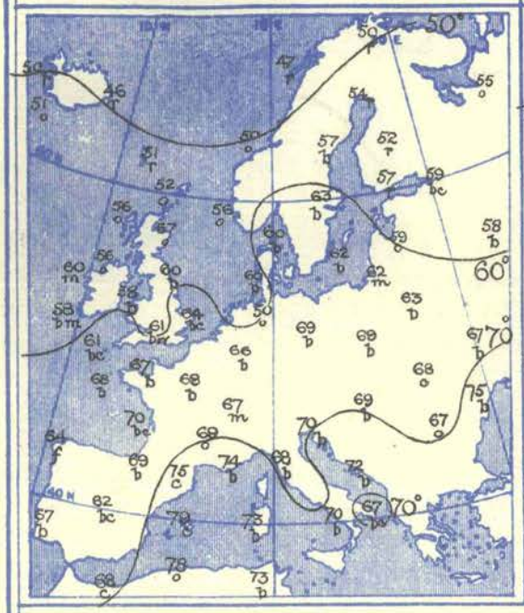
The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 8th August, 1909.

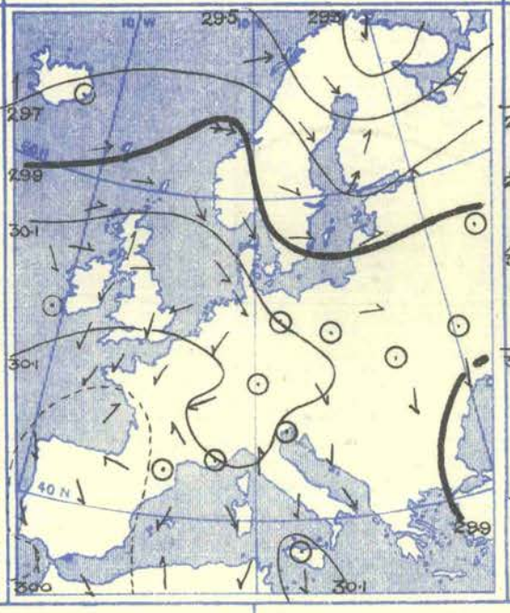
Temperature and Weather.

7 a.m.

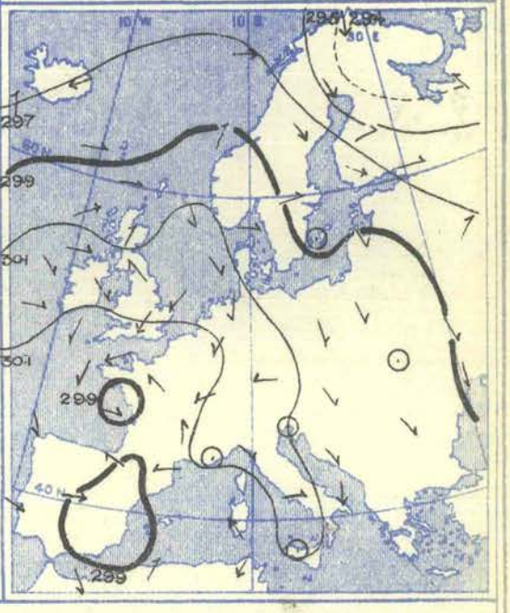


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning very fine and bright as a whole, but overcast in the north of Scotland, and dull and rainy in Finland and northern Scandinavia. Rain also falling locally at Toulouse. Sharp thunderstorms and heavy rain later in several parts of France, considerable rain in Switzerland and Norway.

Temperature in morning rather high over our area generally. Readings ranging from above 70° over a large portion of the Mediterranean region and in the south of Russia, and above 60° in the southern parts of England and Sweden, to 50° or rather lower in the west and north-west of Norway. Maxima during day 87° at Seaford, slightly above 80° in other parts of the south of England, between 80° and 90° over France, central and southern Europe, and above 90° in places; as high as 97° at Nancy.

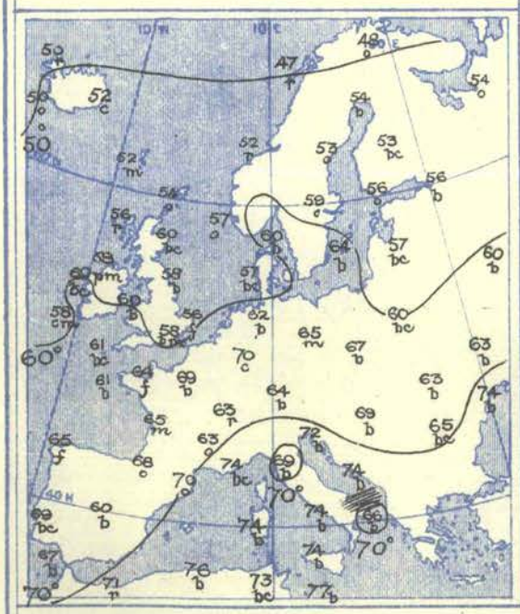
Wind in morning mainly between West and North-West over Scandinavia, and fresh to very strong in force; blowing a gale at Christiansund. Light or moderate and rather variable elsewhere, but chiefly from North or North-East. No general change occurring later in day; decreasing in force in Scandinavia, and local cyclonic circulations setting in over France and Spain.

Barometer in morning above 30·1 ins. in a large area of irregular shape including the United Kingdom, the North Sea, the Low Countries, and much of central Europe. Relatively low over the Spanish Peninsula and the Bay of Biscay, below 29·9 ins. over the Black Sea region, and below 29·3 ins. in the far north of Scandinavia. Subsequent changes slight and rather irregular; high pressure system undergoing considerable modification in form, and definite shallow minima developing over France and Spain. Northern depression travelling eastwards to northern Russia.

Monday, 9th August, 1909.

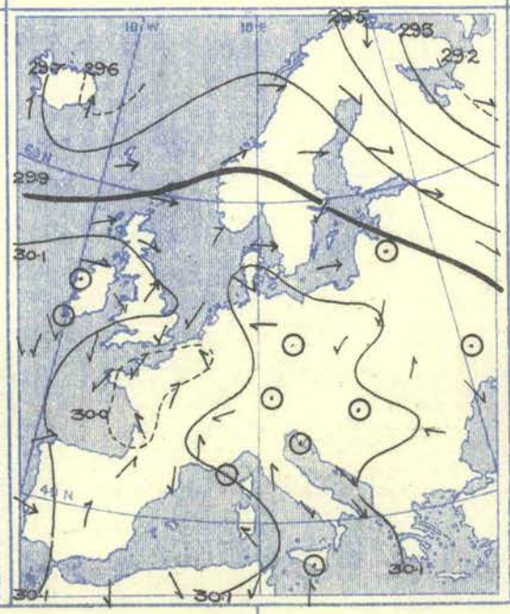
Temperature and Weather.

7 a.m.

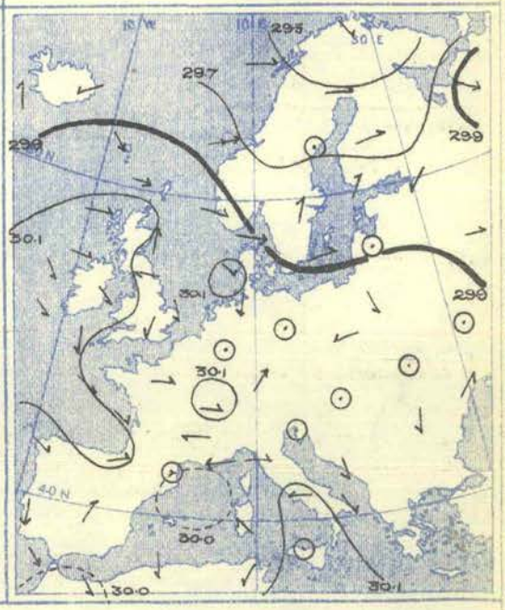


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fine and bright over the major portion of our area, but overcast in places, with rain in the Hebrides and the west of Norway, and some local rain in France. Thunderstorms in a few parts of France and the Netherlands during day, and some rain in Switzerland and in various other localities on the Continent—more than an inch at Utrecht.

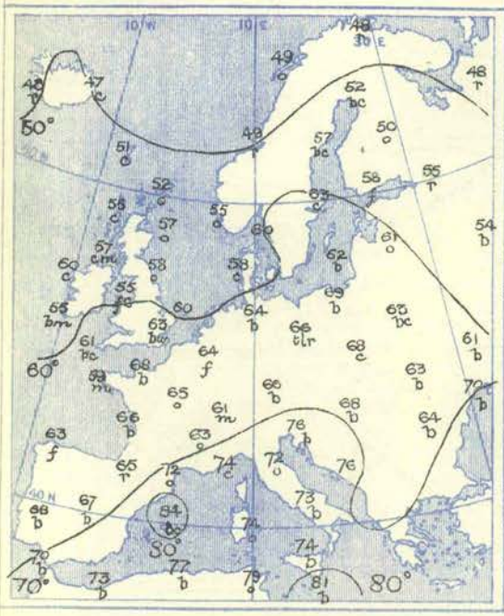
Temperature changed slightly and somewhat irregularly. Readings in morning 60° or above in many parts of these Islands and throughout the central countries, and between 70° and 80° at nearly all stations in southern Europe, and on the northern shore of the Black Sea. Below 50° in the far north of Norway. Rising later to 86° at Weymouth, and to 80° or above in many other English localities, as well as at almost all places over the southern half of the Continent. Maxima above 90° in some regions, and nearly 100° at Tunis.

Wind in morning light and rather variable in many regions, but a feeble cyclonic circulation prevailing over France, and a decided Westerly current from the Faeroe to northern Russia. A gale from West-South-West blowing at Christiansund. No great change later in day.

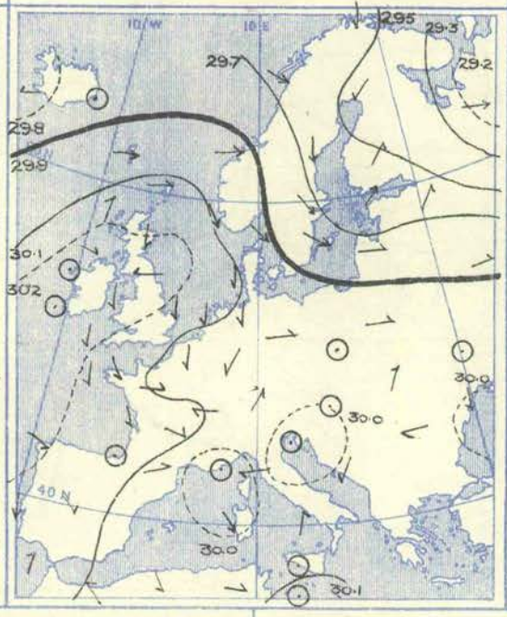
Barometer in morning ranging from above 30·1 ins. in an anticyclone extending from the Atlantic and covering Ireland and Northern Britain to below 29·6 ins. in a depression in the east of Iceland, and to below 29·2 ins. in another system in the extreme north of Russia. A very shallow depression shown over France. General distribution undergoing little change during day; French depression moving eastwards and becoming less pronounced, and barometer becoming lowest in the north of Norway. Pressure increasing in nearly all parts of these Islands and over the Icelandic region.

Tuesday, 10th August, 1909.

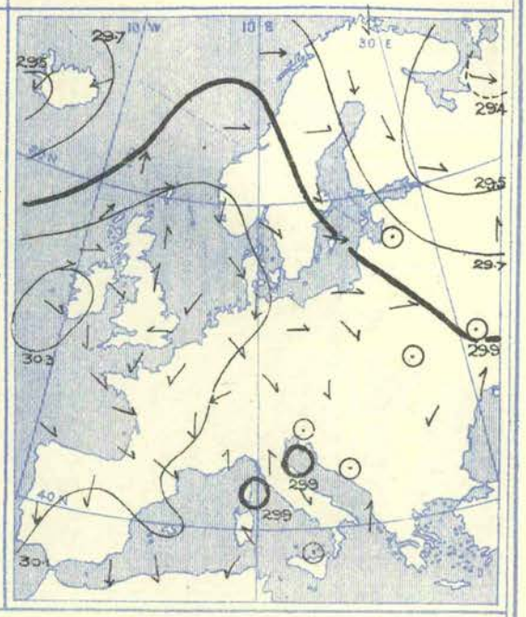
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine generally, but rainy in the south-west of France, overcast, with rain here and there, in the far north of Europe, and a thunderstorm prevailing at Berlin. Some rain in Norway, Finland, and northern Russia later, as well as in a few French and Swiss localities; a thunderstorm occurring at Besançon.

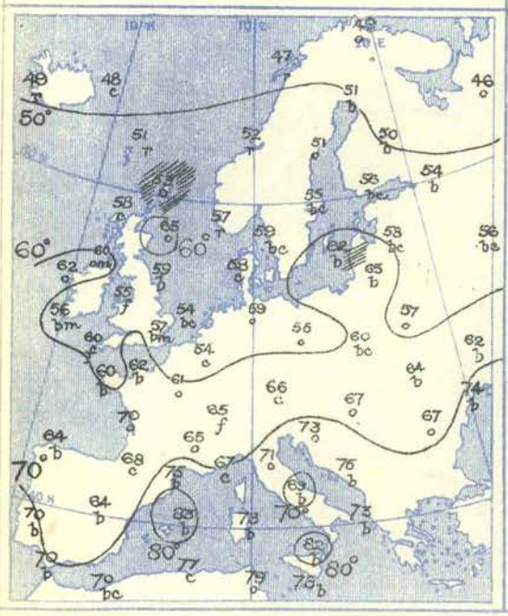
Temperature in morning ranging from between 55° and 65° over the greater part of the United Kingdom, and between 65° and 80° over the southern half of the Continent. Readings decreasing to below 50° in the extreme north. Maxima during day above 70° over a large portion of this country, and about 80° in the south of England. Readings very high in southern Europe; some degrees above 80° very generally, and above 90° in places; highest value, 95° at Bucharest. Thermometer rising to 108° at Tunis.

Wind in morning moderate to strong or high from North-West and West over Scandinavia and the north of Russia, but very light over our area generally. A fairly well marked anticyclonic movement prevailing over these Islands and their neighbourhood, and some cyclonic circulations over the south of Europe. Backing towards the East in Iceland later, and freshening from the South-West at Stornoway.

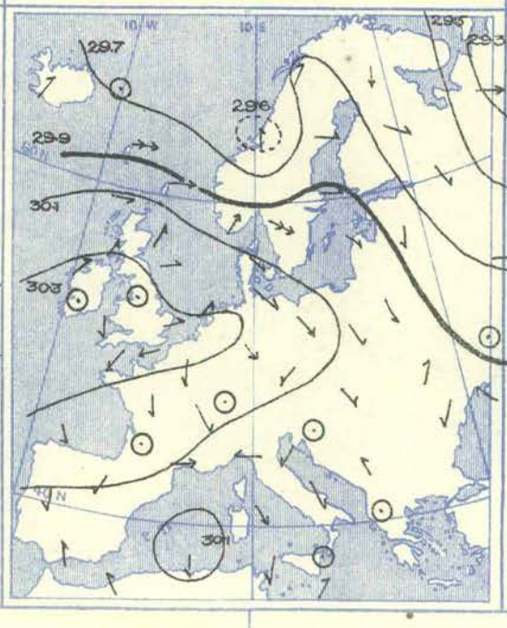
Barometer in morning above 30·2 ins. in a very large area of high pressure extending from the Azores across these Islands to the North Sea. Below 30·0 ins. in two shallow depressions over the south of Europe, below 29·8 ins. to the westward of Iceland, and below 29·2 ins. in the far north of Russia. Pressure decreasing rather briskly in the Icelandic region during day, and slightly in Scotland. No important change taking place within the anticyclonic system; southern depressions increasing somewhat in depth.

Wednesday, 11th August, 1909.

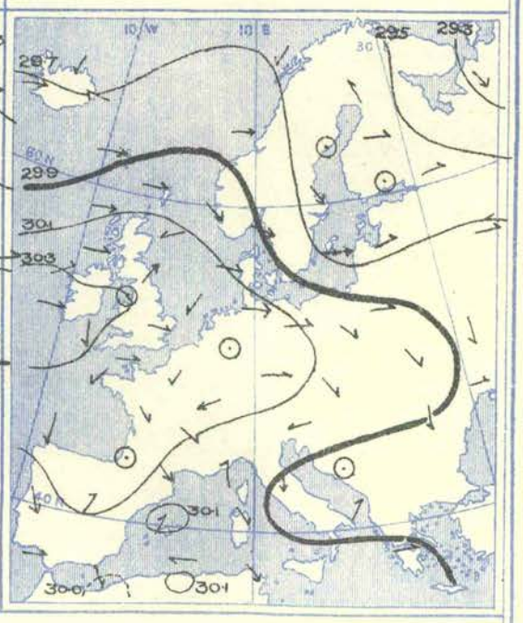
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast, with some rain, in the Icelandic region and Norway, and cloudy or overcast in Shetland and the Hebrides; fine and bright over our area as a whole. Much fog and mist along our west coast. Some rain later in Scandinavia, the north and south of Russia, and at Stornoway and Sumburgh Head, but conditions remaining very fine generally.

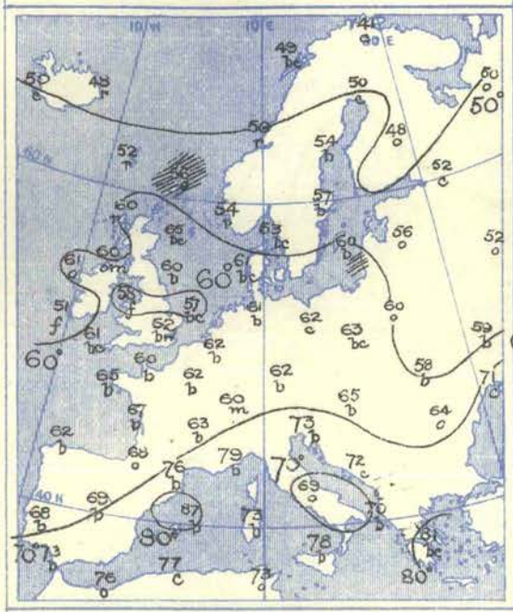
Temperature showing no decided change. Morning readings from about 80° at some stations in the far south of our area to about 60° over a very large portion of the Continent and these Islands, and to 50° or below in the extreme north. Maxima during day between 75° and about 80° over large districts in the United Kingdom, central Europe, and France, between 80° and 90° in Italy, the south of France, and the Spanish Peninsula, and above 90° in places; highest reading, 95° at Madrid.

Wind in morning mainly Westerly over the northern half of these Islands, and the more northern countries of the Continent; light or moderate generally, but strong at Skagen, in the Hebrides and Shetland, and blowing a gale at Thorshavn. Light to moderate and somewhat variable in direction elsewhere. Increasing to a gale from the Westward later over the Skager Rack and at Wisby, but decreasing to a moderate breeze at Thorshavn.

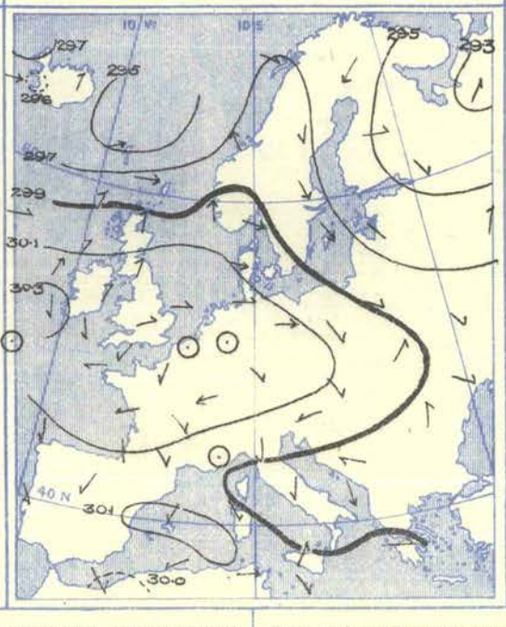
Barometer in morning above 30·3 ins. in the central portion of an anticyclone extending from the Azores to the north of Ireland, and thence to Holland. Below 29·6 ins. in a depression off the west of Norway, and below 29·3 ins. in another system over the far north of Russia. Norwegian depression travelling eastwards during day, and becoming less clearly marked. Another fall of the barometer commencing over Iceland.

Thursday, 12th August, 1909.

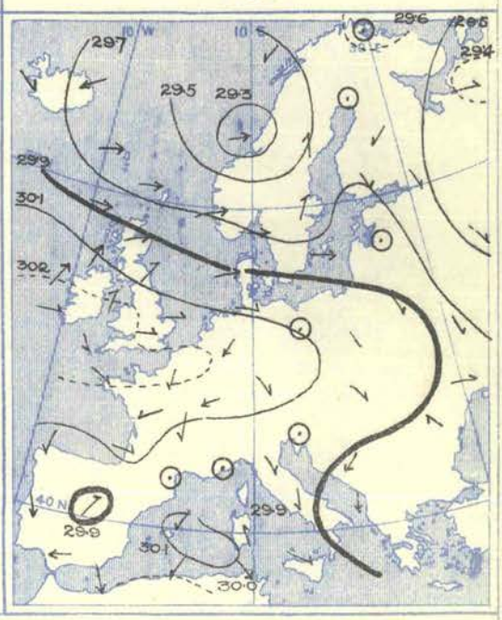
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair to very fine and bright over our area generally, but overcast, with some rain, in the Hebrides, Shetland, Norway, and the Icelandic region. Slight rain later in Ireland and Scotland, considerable or heavy falls in Scandinavia, and more than an inch at Brindisi. Conditions continuing very fine generally.

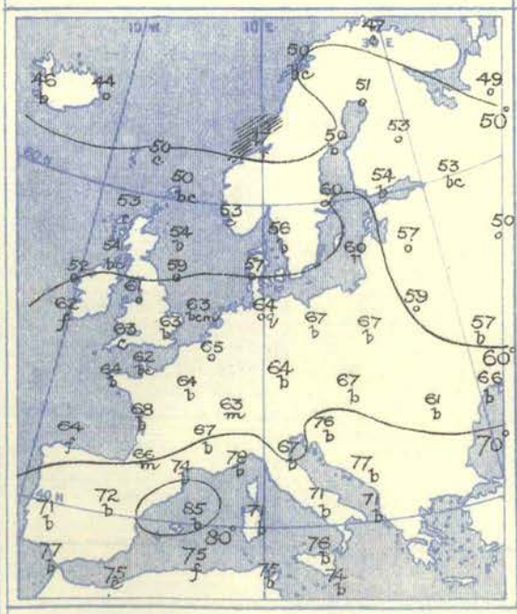
Temperature changed rather irregularly, but risen in most localities. Readings in morning above 60° in most parts of these Islands, and at nearly all stations over the mainland of the Continent, and between 70° and 80° over the Mediterranean. Below 50° in the extreme north. Rising during day to 86° at Lowestoft, 85° in London, central England, and at Southsea, and to above 80° in many other English localities. Maxima very high over the greater part of France and southern Europe; many degrees above 80° in most places, and above 90° at some stations. Highest values, 95° at Hermanstadt, and 97° at Rochefort and Madrid.

Wind in morning circulating cyclonically over the north of our area, and also over Italy and its neighbourhood, and anticyclonically over England and France; moderate or light generally, but strong to high in the extreme north and north-west of these Islands, as well as on the Baltic. Subsequent changes very slight generally; Westerly current tending to spread more over England and the North Sea.

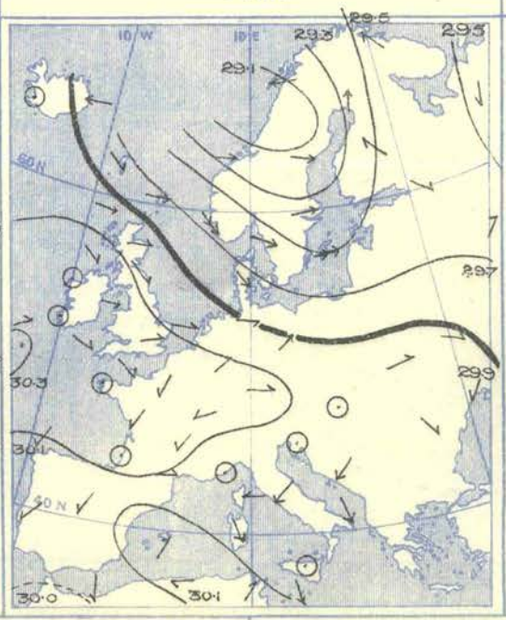
Barometer highest in an area of high pressure stretching from the Azores across England to Germany; readings decreasing to less than 29·5 ins. in a depression to the northward of Scotland, and to less than 29·3 ins. in the north of Russia. Depressions moving eastwards during day, and anticyclone receding somewhat south-westwards. A shallow secondary disturbance approaching the north-west of these Islands.

Friday, 13th August, 1909.

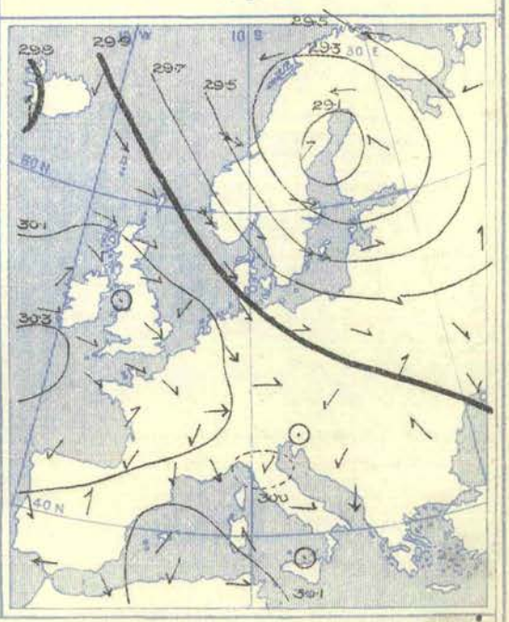
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair to very fine and bright over our area as a whole, but cloudy or dull in Scandinavia and Finland, with rain in places. Slight rain experienced later over all the more northern parts of the United Kingdom, and in a few parts of central Europe, and heavy falls over a considerable portion of Scandinavia and Finland.

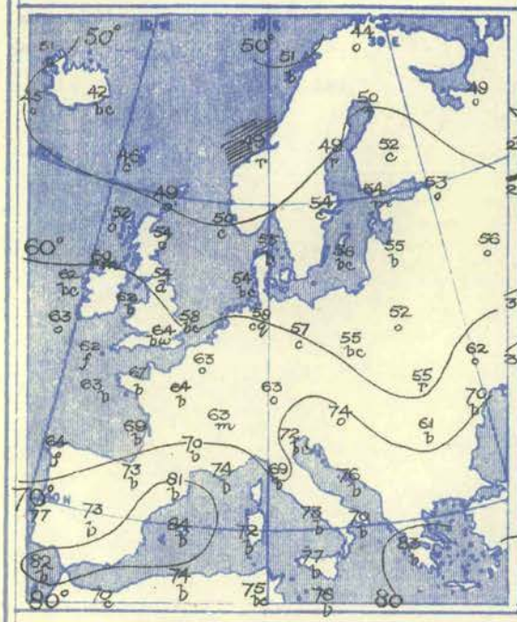
Temperature fallen decidedly in Scotland and the north of Ireland, changed little elsewhere. Morning readings ranging from 85° at Palma and Barcelona, and above 70° in the far south generally, to between 60° and 65° in most parts of England, Ireland, and central Europe, and to about 50° at several stations in the north of the Continent. Maxima during day about 80° over southern England and the central countries of Europe, above 90° in the south of France, and as high as 102° at Madrid. Thermometer remaining below 70° over the north of these Islands.

Wind in morning showing a well marked cyclonic circulation over Scandinavia and its neighbourhood; Westerly current strong to high on our extreme northern coasts, and strong to a gale over southern Scandinavia and the Skager Rack. Light or moderate anticyclonic breezes prevailing over France, the south of this country, and central Europe. Gale area increasing in extent over northern Europe by evening, but little other change.

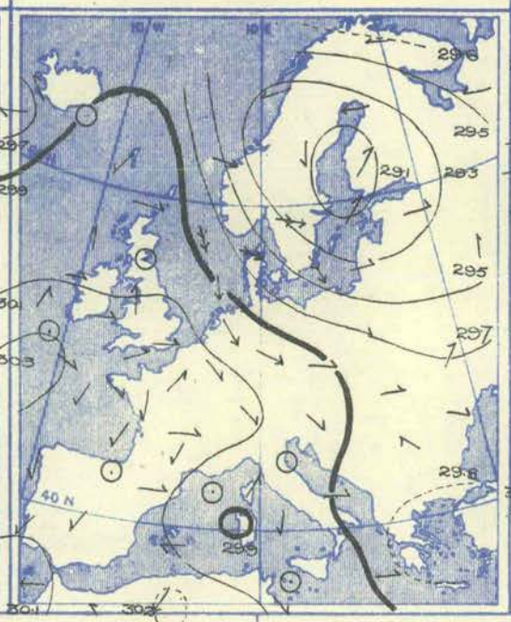
Barometer in morning above 30·2 ins. in an anticyclone extending from the Atlantic to Ireland and Brittany; below 29·1 ins. in a large depression centred over the north of Norway. Gradients rather steep over the major portion of Scandinavia, and in the north of Scotland. Northern depression moving eastwards during day, but little modification occurring in the general distribution of pressure. Barometer rising somewhat over these Islands; changing very slightly in Iceland.

Saturday, 14th August, 1909.

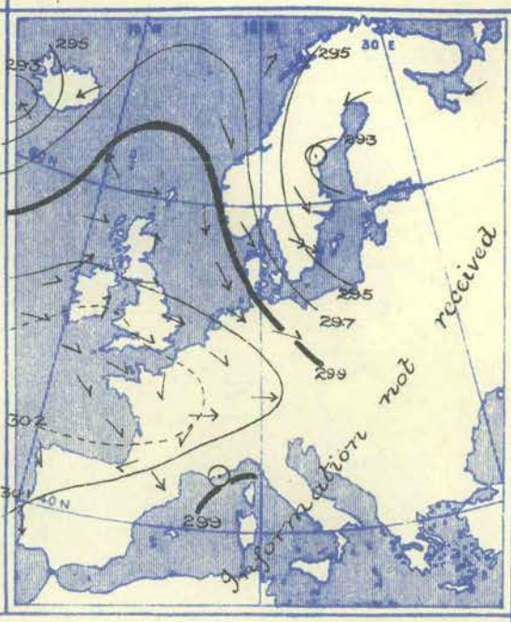
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over the greater part of our area, but slight rain falling at some of our own northern stations, and much cloud and some rain reported over Scandinavia and Russia. Some rain later in Scotland, Ireland, Scandinavia, and in a few German localities.

Temperature fallen briskly over central Europe and the Baltic region. Readings in morning below 55° in Scotland, but about 65° in many English and Irish localities, above 70° over much of the Mediterranean, and above 80° at a few stations. Below 60° in Germany and Denmark, and below 50° in the extreme north of our area. Rising to 81° during day in London and to about 80° over a considerable portion of England, but remaining below 65° in the north of Scotland. Thermometer rising to 95° at Rochefort and 98° at Perpignan.

Wind in morning still showing a very decided cyclonic circulation over the northern countries of the Continent; Westerly and North-Westerly currents strong to a gale over Norway, Denmark, and the Baltic. Light anti-cyclonic airs prevailing over England, France, and the Bay of Biscay, and light cyclonic winds over Italy and its neighbourhood. Gale continuing all day over Norway and the Baltic. Increasing to a strong breeze or a gale from South-East in the west of Iceland by evening.

Barometer in morning below 29·1 ins. in a large depression centred over Finland, below 29·7 ins. off the west of Iceland, and relatively low in the south of our area. Above 30·2 ins. over France, the Bay of Biscay, and the south and south-west of these Islands. A new depression causing a very brisk fall of the barometer in Iceland during day. Changes slight in these Islands, but generally downward.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second). *See* also p. 252.

No.	Date of Observation.	Station and its Height above M.S.L		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	August 5th, 11.0 a.m. to 4.0 p.m.	Aldershot. 80 m.	Temperature Humidity .. Wind	293° 71% 		289° 65% 	283° 60% 				280° 55% 	1,442	Fine and sunny. Very warm. No wind.
2	August 8th, 10.30 a.m. to 12.5 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	298° 57% 70°, 7	297° 57% 80°, 7	293° 54% 120°, ?						500	Cloudless. Hum. at 300 m. 65% Kite raised to 500 m. in convection current.
3	August 10th, 8.6 p.m. to 9.16 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	288° 96% 169°, 1	288° 96% 230°, 2	288° 95% 245°, 2					286° 95% 296°, 3	950	Fine. Light air. Clouds, O. to S.-Cu. 3. Large rise in temp. and fall in humidity at 670 m. when decending accompanied by heavy fall of dew below.
4	August 11th, 8.28	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind .. .	288° 93% Calm.	288° 90% 316°, 2	289° 88% 316°, 2					289° 66% 320°, 3	650	Very fine. Calm. Clouds. S.-Cu. 2. Temp. rose slightly with altitude with large fall in humidity.
5	August 12th, 11.57 p.m. to 12.40 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind .. .	284°·5 99% Calm.							286°·5 77% 315°, 3	400	Fine, calm. No clouds. Unusual rise of temp. Balloon not filled enough for successful ascent.
6	August 13th, 7.40 a.m. to 9.50 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 100% 304°, 6	286° 100% 303°, 11	285° 100% 302°, 12	282° 100% 306°, 17	279° 95% 310°, 19			278° 47% 310°, 21	1,930	Dull and wet, fine later. Moderate breeze. Clouds, Ni. 10 on the hill top. Great fall in humidity at 1,600 metres.
7	August 14th, 8.0 a.m. to 10.27 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	288° 100% 276°, 6	287° 100% 284°, 11	287° 100% 286°, 12	284° 100% 304°, 19	282° 100% 303°, 20			281° 80% 300°, 21	2,000	Dull and wet. Moderate breeze. Clouds, Ni. 10 on the hill top. Later, overcast and dull.
8	August 14th, 11.10 a.m. to 12.30 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	293° 86% 250°, 5	?° ?% var.	291° 90% 270°, 8							Thin Stratus at 100 m. clearing off. Cloudless at descent.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8
No. of Kites or Balloons	—	2	1	1	1	1	1	2
Area of Surface (sq. metres) ..	—	10·5	—	—	—	7·5	7·5	10·5
Capacity of Balloon (cub. metres)	—	—	3·2	3·2	3·2	—	—	—
Length of Wire (metres)	—	1,300	700	450	90	3,000	3,500	1,250

63, Victoria Street, London, S.W. *August 18th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 33. THIRTY-THIRD WEEK, SUNDAY AUGUST 15TH TO SATURDAY AUGUST 21ST, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather became unsettled soon after the week commenced, and passing showers, or more prolonged falls of rain, occurred frequently over the whole Kingdom. Thunderstorms were experienced early in the week and also on Saturday.

Temperature was at first high for the time of year, but subsequently fell very decidedly. The mean for the week exceeded the average in all districts except Scotland N., the greatest divergence being 2°·4 in England E. The highest of the maxima were recorded on Sunday, and ranged from 85° in the Midland Counties, 84° in England E., S.E., and the English Channel, and 83° in England N.E. and S.W., to 77° in Ireland, to 73° in Scotland W., and to 72° in Scotland N. The lowest of the minima, which were registered either on Tuesday or on Saturday, varied from 36° in Ireland N., and 39° in Scotland N. to 49° in England E., and to 54° in the English Channel. The lowest grass readings reported were 31° at Markree Castle, 34° at Cirencester, 36° at Llangammarch Wells, Hereford and Crathes, and 37° at Armagh.

Mean Temperature of the Sea.—On most parts of the coast the water was warmer than during the corresponding period of last year. The actual values ranged from 65°·4 at Margate, 63°·9 at Seafield, and about 61°·5 on the north-west coast of Ireland, to 52° at Wick and Lerwick.

Rainfall was more than the average over England and the north of Scotland; less in Ireland and the east and west of Scotland. In most parts of England the excess was large, the fall in England N.E. amounting to more than three times as much as the average. More than an inch fell in many places on Tuesday, the heaviest falls reported being 1·5 in. at Bawtry and Oxford, 1·6 in. at Rauceby, and 1·9 in. at Marlborough. Later in the week there were further heavy falls.

Bright Sunshine was somewhat less than the average in nearly all parts of England, but above it in Ireland and Scotland. The percentage of the possible duration ranged from 45 in Ireland, N., 43 in Ireland S., 42 in England E., and 41 in Scotland N., to 33 in Scotland E., and to 32 in England N.W.

Barometer and Wind.—At the commencement of the week an anticyclone extended over England and Wales from the Continent, but the system soon receded eastwards, and the United Kingdom and its neighbourhood came under the influences of disturbances which advanced from the Atlantic. The primary depressions moved in a general easterly direction over the Icelandic region, while their secondaries travelled eastwards or north-eastwards directly over this country. The general current of wind was between South and West, and a fresh to very strong breeze was experienced at times on the western and southern coasts. Quite at the end of the week the development of a pressure minimum over the North Sea caused the wind to veer towards North-West over the United Kingdom, bringing about a decided fall of temperature.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 244.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Unusual	Moderate	Moderate	Unusual
	Rainfall ...	Heavy	Light	Very heavy	Heavy	Very heavy	Very heavy	Moderate	Heavy	Heavy	Light	Light	Moderate
	Sunshine ...	Very abundant	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Scanty	Very abundant	Abundant	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 11 weeks from June 6th, 1909.	Warmth ...	1 * 5	1 * 6	2 * 6	2 * 7	2 * 5	2 * 8	1 * 5	1 * 6	2 * 6	1 * 4	1 * 4	2 * 7
	Rainfall ...	3 * 5	2 * 6	5 * 5	5 * 3	4 * 3	4 * 4	3 * 3	5 * 4	4 * 5	1 * 5	1 * 7	2 * 6
	Sunshine ...	4 * 2	4 * 2	1 * 6	3 * 5	3 * 5	3 * 6	2 * 3	3 * 4	4 * 4	3 * 3	4 * 3	4 * 4

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5

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II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-THIRD WEEK—August 15th to August 21st, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	72	39	61·2	48·1	54·3	− 0·5	86	− 3	0	0	5	0	1·27	+0·35	44	+ 17	41	+15
Eastern																		
1. SCOTLAND, EAST	78	41	63·9	49·7	56·4	+ 0·5	101	+ 3	0	0	5	+ 1	0·40	−0·34	35	+ 1	33	+ 1
2. ENGLAND, N.E.	88	46	67·2	53·5	60·0	+ 2·0	126	+ 14	0	0	6	+ 2	1·88	+1·30	36	− 1	34	− 1
3. ENGLAND, EAST	84	49	70·4	55·3	62·4	+ 2·4	143	+ 17	0	0	5	+ 2	0·81	+0·26	43	0	42	0
4. MIDLAND COUNTIES	85	44	69·4	52·8	60·6	+ 1·5	130	+ 11	0	0	6	+ 2	1·56	+0·97	36	− 3	35	− 3
5. ENGLAND, S.E.	84	42	69·2	56·3	62·4	+ 1·3	143	+ 9	0	0	5	+ 2	1·34	+0·79	36	− 10	35	−10
Western																		
6. SCOTLAND, WEST	73	41	63·7	51·3	57·2	+ 0·5	106	+ 3	0	0	5	0	0·79	−0·24	40	+ 4	38	+ 4
7. ENGLAND, N.W.	82	48	64·7	54·4	59·2	+ 0·9	120	+ 5	0	0	6	+ 2	1·56	+0·76	33	− 4	32	− 3
8. ENGLAND, S.W.	83	44	67·0	55·3	60·8	+ 1·5	132	+ 10	0	0	6	+ 2	1·31	+0·58	35	− 8	35	− 8
9. IRELAND, NORTH	77	36	64·6	51·1	57·4	+ 0·3	108	+ 3	0	0	6	+ 1	0·48	−0·43	47	+ 16	45	+16
10. IRELAND, SOUTH	77	42	66·5	53·0	59·4	+ 1·0	122	+ 7	0	0	5	+ 1	0·35	−0·62	44	+ 8	43	+ 8
11. ENGLISH CHANNEL	84	54	68·1	58·7	63·1	+ 1·4	148	+ 12	0	0	4	0	0·69	+0·09	34	− 21	34	−21
THE SEASON (Summer).—Aggregates, &c., for the Period of 11 Weeks, June 6th to August 21st, 1909.																		
0. SCOTLAND, NORTH	72	35	*	*	*	*	869	− 68	0	− 2	49	+ 2	§ 7·59	−0·87	334	− 5	26	0
Eastern																		
1. SCOTLAND, EAST	80	30	*	*	*	*	981	− 73	0	− 1	40	0	5·87	−0·98	423	+ 4	33	0
2. ENGLAND, N.E.	85	33	*	*	*	*	1145	− 41	0	0	40	+ 5	7·84	+2·12	402	− 62	32	− 5
3. ENGLAND, EAST	85	35	*	*	*	*	1236	− 96	0	0	39	+ 6	6·32	+0·83	466	− 47	38	− 4
4. MIDLAND COUNTIES	86	33	*	*	*	*	1198	− 97	0	0	38	+ 4	7·33	+1·57	420	− 41	34	− 3
5. ENGLAND, S.E.	86	35	*	*	*	*	1280	−119	0	0	35	+ 4	6·03	+0·82	483	− 46	40	− 4
Western																		
6. SCOTLAND, WEST	78	32	*	*	*	*	1034	83		0	41	− 1	9·46	+0·66	465	+ 21	37	+ 2
7. ENGLAND, N.W.	82	32	*	*	*	*	1105	−122	0	0	41	+ 3	8·26	+1·12	433	− 27	35	− 2
8. ENGLAND, SW.	89	30	*	*	*	*	1230	− 65	0	0	38	+ 1	6·62	−0·20	514	+ 12	43	+ 1
9. IRELAND, NORTH	78	33	*	*	*	*	1073	− 56	0	0	45	− 2	5·89	−2·12	366	− 8	29	− 1
10. IRELAND, SOUTH	81	36	*	*	*	*	1215	− 34	0	0	37	− 3	4·71	−3·08	424	+ 4	35	0
11. ENGLISH CHANNEL	84	42	*	*	*	*	1356	− 44	0	0	27	−10	3·31	−2·14	629	+ 12	52	+ 1
THE YEAR.—Aggregates, &c., for the Period of 33 Weeks, January 3rd to August 21st, 1909.																		
0. SCOTLAND, NORTH	72	13	*	*	*	*	1298	− 87	535	− 22	152	+ 1	§ 24·02	−5·28	831	− 3	27	0
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*		1459	−126	673	+ 53	127	+ 3	20·13	+2·02	967	− 20	31	− 1
2. ENGLAND, N.E.	85	14	*	*	*	*	1743	+ 5	580	+105	114	+ 2	17·19	+2·99	1059	− 7	35	0
3. ENGLAND, EAST	85	12	*	*	*	*	1905	−118	554	+ 33	114	+ 6	14·45	+0·64	1230	+ 82	41	+ 3
4. MIDLAND COUNTIES	86	8	*	*	*	*	1918	− 96	642	+109	106	− 2	16·14	+0·67	1106	+ 78	36	+ 3
5. ENGLAND, S.E.	86	0	*	*	*	*	1982	−184	482	+101	106	+ 4	15·93	+1·11	1300	+140	43	+ 5
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	1621	− 88	445	+ 20	124	− 7	26·98	+0·36	1070	+ 54	35	+ 2
7. ENGLAND, N.W.	82	10	*	*	*	*	1742	−109	466	+ 80	118	− 1	20·19	+0·76	1153	+122	38	+ 4
8. ENGLAND, S.W.	89	7	*	*	*	*	1915	−145	390	+ 89	116	− 1	19·13	−1·77	1260	+121	42	+ 4
9 IRELAND, NORTH	78	14	*	*	*	*	1745	− 44	315	− 30	144	+ 2	19·92	−2·05	941	+ 7	31	0
10. IRELAND, SOUTH	81	15	*	*	*	*	2040	− 28	265	+ 6	131	+ 5	20·20	−3·11	1084	+ 42	36	+ 2
11. ENGLISH CHANNEL	84	25	*	*	*	*	2318	− 1	151	+ 42	105	−19	15·37	−2·00	1493	+113	50	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

§ Corresponding values for Reports Nos. 26 to 32 altered owing to further information.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.				
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°.	Accumulated Heat for the Week (in Day degrees). Below 42°.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	NAMES OF STATIONS.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N.	*p Balta Sound* S	*59*	*15th, 19th*	*43*	*18th*	*57·3*	*46·4*	*51·5*	—	*67*	*0*	*6*	*0·65*	—	*54·6*	—	*50*	—	*Balta Sound.*
	a Sumburgh Head	65	19th	43	18th, 19th	58·7	47·1	52·6	+ 0·4	74	0	5	0·79	+ 0·12	45·8	+18·5	42	+17	Deerness.
	a Stornoway	64	15th, 16th	42	18th	59·9	47·7	53·4	- 0·8	80	0	5	0·97	+ 0·03	48·4	+18·1	45	+17	Stornoway.
	a Castlebay, Barra Isd.	*60*	*15th, 16th*	*48*	*17th*	*58·1*	*50·7*	*54·2*	- *2·5*	*85*	*0*	*5*	*0·69*	—	*37·5*	—	*35*	—	*Castlebay.*
	a Wick	70	15th	39	17th	61·3	48·0	54·3	0·0	86	0	3	0·28	- 0·37	*	*	*	*	
	p Strathpeffer	72	15th	43	19th	63·6	48·6	55·7	+ 0·5	96	0	6	0·57	- 0·01	47·7	+20·1	45	+19	Strathpeffer.
	p Glencarron	65	15th	41	17th	60·0	47·0	53·1	- 0·4	78	0	6	3·00	+ 1·38	*	*	*	*	
	p Fort Augustus S	69	15th	40	17th	62·5	49·0	55·4	- 0·2	94	0	6	1·25	+ 0·45	32·3	+11·9	31	+11	Fort Augustus.
	p Fort William S	69	15th	42	17th	62·3	49·3	54·4	- 0·6	94	0	7	2·06	+ 0·66	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	77	15th	41	17th	65·5	47·5	56·0	- 0·1	98	0	3	0·58	- 0·20	*40·7*	—	*38*	—	*Gordon Castle.*
	a Nairn	78	15th	41	17th	63·7	47·1	54·9	- 1·1	90	0	4	0·45	- 0·10	45·6	—	43	—	Nairn.
	a Aberdeen	78	15th	46	17th	65·3	51·7	58·1	+ 2·1	113	0	3	0·35	- 0·29	38·1	+ 1·5	34	+ 2	Aberdeen.
	a Balmoral	74	15th	45	17, 18, 19, 21	63·6	47·1	54·9	+ 1·9	90	0	2	0·06	- 0·77	30·2	—	29	—	Crathes S.
	p Crieff S	75	15th	45	19th, 21st	65·0	49·9	57·0	- 0·1	105	0	6	0·29	- 0·65	29·7	—	28	—	Balruddery
	a Leith	76	15th	50	21st	64·6	53·3	58·6	+ 0·6	116	0	6	0·20	- 0·45	35·1	+ 2·1	33	+ 2	Edinburgh.
	a West Linton S	71	15th	45	17th, 21st	60·7	50·2	55·1	+ 0·4	92	0	7	0·80	—	*51·8*	—	*30*	—	*West Linton.*
	p Marchmont S	75	15th	43	21st	62·6	51·1	56·5	+ 0·9	102	0	5	0·43	- 0·34	31·4	- 2·4	30	- 2	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle	76	15th	48	21st	64·9	53·1	58·7	+ 2·1	117	0	6	1·24	+ 0·56	28·3	—	27	—	Cockle Park.
	a Shields	78	15th	47	21st	64·6	52·6	58·2	+ 0·8	113	0	5	1·69	+ 1·08	*23·5*	- *6·5*	*23*	- *6*	*Newcastle.*
	p Durham	75	15th	46	21st	65·7	52·7	58·8	+ 1·2	118	0	6	1·54	+ 0·98	31·2	- 2·7	30	- 3	Durham.
	p Rounton M	78	15th	46	21st	65·2	51·1	57·7	+ 0·6	110	0	7	2·30	+ 1·67	*	*	*	*	
	p Scarborough M	79	15th	48	21st	68·9	54·6	61·3	+ 3·1	135	0	5	1·88	+ 1·25	29·8	—	29	—	Scarborough.
	p York	81	15th	48	21st	68·2	54·5	60·9	+ 2·1	132	0	6	1·52	+ 0·94	28·1	- 6·4	27	- 6	York.
	a Spurn Head	79	15th	51	21st	67·9	55·3	61·2	+ 2·0	134	0	4	2·08	+ 1·63	*	*	*	*	
	a Lincoln	82	15th	47	21st	69·1	53·4	60·8	+ 1·4	132	0	5	2·60	+ 2·09	50·8	—	49	—	Skegness.
	a Fulbeck	83	15th	48	21st	70·7	54·4	62·1	+ 2·7	141	0	6	2·05	+ 1·48	44·7	—	43	—	Rauceby.
3. ENGLAND, E.	*p* Cromer	79	15th	49	21st	69·6	54·8	61·8	+ 2·4	139	0	5	0·52	—	*59·7*	—	*50*	—	*Lowestoft.*
	p Hillington M	82	15th	49	17th, 21st	70·0	53·9	61·5	+ 2·0	137	0	6	0·75	+ 0·11	42·0	—	41	—	Cromer.
	a Yarmouth	74	15th	53	17th, 21st	68·4	55·9	61·8	+ 1·9	139	0	4	0·48	- 0·06	43·3	+ 2·4	43	+2	Hillington.
	a Norwich	83	15th	52	17th, 21st	72·1	55·4	63·3	+ 3·7	149	0	5	0·77	—	49·4	—	48	—	Yarmouth.
	p Geldeston	82	15th	52	17th, 21st	72·5	55·6	63·5	+ 4·1	151	0	4	1·04	+ 0·53	*	*	*	*	
	p Cambridge	84	15th	49	17th, 21st	71·5	53·7	62·1	+ 1·6	141	0	7	0·83	+ 0·30	41·4	- 2·4	41	- 3	Geldeston.
	a Felixstowe	*70*	*15th*	*51*	*19th*	*66·1*	*57·4*	*61·5*	+ *0·6*	*137*	*0*	*4*	*0·71*	—	44·2	+ 1·2	43	+ 1	Cambridge.
	a Clacton-on-Sea	72	15, 16, 19th	52	17th	68·7	57·6	62·8	+ 1·8	146	0	5	0·56	—	*46·5*	—	*46*	—	*Felixstowe.*
	a Rothamsted	80	15th	49	17th	69·0	53·4	60·7	+ 1·5	131	0	5	1·49	+ 0·92	43·0	—	42	—	Clacton.
	a Shoeburyness	*79*	*15th*	*53*	*17th*	*71·0*	*57·7*	*64·0*	+ *1·8*	*154*	*0*	*3*	*0·62*	+ *0·23*	42·0	- 1·8	41	- 2	Rothamsted.
	p Tottenham	84	15th	54	17th, 21st	72·2	57·0	64·1	+ 3·2	155	0	5	0·84	—	*38·6*	—	*38*	—	*Southend.*
4. MIDLAND COUNTIES.	*a* Harrogate	79	15th	47	21st	66·4	52·9	59·3	+ 2·3	121	0	7	2·05	+ 1·41	40·7	—	40	—	Tottenham.
	a Bawtry	84	15th	47	21st	71·6	51·4	60·9	+ 1·8	132	0	5	2·08	+ 1·54	31·6	—	31	—	Harrogate.
	p Buxton M	*78*	*15th*	*46*	*21st*	*66·0*	*51·3*	*58·2*	+ *2·3*	*118*	*0*	*6*	*1·46*	+ *0·45*	31·5	- 2·1	31	- 2	Worksop.
	a Nottingham	82	15th	46	21st	70·0	53·1	61·0	+ 1·8	133	0	6	2·04	+ 1·49	*40·2*	—	*39*	—	*Buxton.*
	p Birmingham, Edgbsn	81	15th	47	21st	67·6	53·4	60·1	+ 1·7	127	0	7	1·41	+ 0·79	38·7	—	38	—	Nottingham.
	a Raunds M	85	15th	48	17th	72·4	52·8	62·0	+ 2·4	140	0	5	1·34	—	35·3	—	35	—	Birmingham.
	a Oxford	84	15th	49	21st	70·0	55·1	62·1	+ 1·9	141	0	5	2·02	+ 1·49	*	*	*	*	
	a Cheadle M	77	15th	45	21st	66·5	51·8	58·7	+ 1·7	117	0	7	1·85	+ 1·08	40·4	- 1·7	40	- 2	Oxford.
	p Shrewsbury	84	15th	46	17th	69·9	51·4	60·1	+ 1·2	127	0	5	0·68	—	34·7	—	34	—	Sheffield.
	a Hereford M	81	15th	45	17th	70·8	53·1	61·4	+ 2·0	136	0	4	0·73	+ 0·18	*	*	*	*	
	a Cirencester	82	15th	44	21st	69·1	51·0	59·5	+ 1·2	123	0	7	1·94	+ 1·28	*	*	*	*	
	a Bath	82	15th	49	21st	69·4	54·9	61·7	+ 1·9	138	0	4	1·03	+ 0·40	34·7	- 6·7	34	- 7	Cirencester.
5. ENGLAND, S.E.	*p* Kew	83	15th	54	17th	71·1	57·2	63·7	+ 2·9	152	0	6	0·61	+ 0·09	41·0	—	41	—	Bath.
	a Marlborough	82	15th	44	17th	69·0	51·8	59·9	+ 1·9	125	0	7	2·56	+ 1·97	*43·6*	—	*43*	—	*Ramsgate.*
	a Margate	81	15th	55	21st	71·5	58·3	64·5	+ 3·0	158	0	4	0·87	+ 0·42	39·2	- 3·8	39	- 4	Kew.
	a Wisley, Surrey	84	15th	50	17th	70·8	55·7	62·8	+ 1·5	146	0	5	1·01	—	31·0	- 9·3	31	- 9	Marlborough.
	a Swarraton M	81	15th	42	17th	68·5	53·5	60·6	+ 1·5	130	0	5	1·34	+ 0·73	37·7	- 5·8	37	- 6	Margate.
	a Tunbridge Wells M	81	15th	49	17th	69·7	55·1	62·0	+ 2·1	140	0	5	1·38	+ 0·88	38·1	—	38	—	Wisley.
	a Dungeness	71	15th	55	17th, 21st	66·6	58·4	62·3	+ 1·3	142	0	5	1·61	+ 1·16	32·7	—	32	—	Worthing.
	p Hastings	73	15th	53	17th	67·7	57·5	62·3	+ 1·3	142	0	6	1·47	+ 0·93	36·6	- 7·8	36	- 8	Tunbridge Wells.
	p Southampton	79	15th	53	17th, 21st	69·4	56·8	62·7	+ 0·5	145	0	4	1·13	+ 0·54	38·4	—	38	—	Littlestone.
	a Ventnor	75	15th	54	21st	67·6	58·5	62·8	+ 0·8	146	0	5	1·44	+ 0·97	*33·3*	-*15·1*	*33*	-*15*	*Hastings.*
															34·8	-12·4	35	-12	Southampton.
															30·1	-16·5	30	-16	Ventnor.
															35·0	-12·4	35	-12	Eastbourne.
LONDON	*a Westminster*	*83*	*15th*	*54*	*17th*	*71·6*	*58·9*	*64·9*	+ *3·8*	*160*	*0*	*4*	*0·63*	+ *0·11*	*37·1*	- *1·3*	*37*	- *1*	*Westminster.*
	a Greenwich	*86*	*15th*	*53*	*17th*	*73·6*	*55·8*	*64·2*	+ *2·2*	*155*	*0*	*4*	*0·82*	+ *0·33*	*40·2*	- *8·1*	*40*	- *8*	*Greenwich.*
6.	*p* Laudale	71	15th	43	17th	63·5	50·3	56·5	+ 0·2	102	0	7	1·68	+ 0·27	*	*	*	*	
	a Poltalloch S	71	15th	42	17th	62·7	49·3	55·6	- 1·2	95	0	6	1·17	+ 0·10	*	*	*	*	
	p Glasgow	73	15th	47	17th	62·8	52·3	57·2	+ 0·8	106	0	5	0·85	- 0·04	36·2	+ 6·2	35	+ 6	Glasgow.
	p Rothesay S	70	15th	47	17th	63·7	52·1	57·6	+ 0·9	109	0	5	0·61	- 0·49	*	*	*	*	
	a Kilmarnock	72	15th	41	17th	64·0	50·8	57·0	+ 0·4	105	0	3	0·69	—	*35·0*	—	*34*	—	*Kilmarnock.*
	a Colmonell	71	15th	45	18th	65·7	51·3	58·1	+ 1·1	113	0	5	0·72	- 0·22	*	*	*	*	
	p Dumfries	71	15th	46	17th	64·7	53·9	59·0	+ 1·4	119	0	5	0·40	- 0·48	*35·7*	—	*34*	—	*Dumfries*
	p Cally, Gatehouse S	69	15th	42	17th	64·2	49·6	56·5	+ 0·4	102	0	5	0·44	- 0·63	*	*	*	*	
	p Douglas	64	15, 16, 20th	49	17th	61·8	52·5	56·9	+ 0·2	104	0	6	0·56	- 0·37	43·2	+ 3·5	42	+ 3	Douglas.
															36·3	—	35	—	Hoylake.
															35·7	—	34	—	Aspatria.
7.	*p* Aspatria	78	15th	48	17th, 21st	64·5	52·9	58·4	+ 1·7	115	0	4	0·65	- 0·35	29·0	- 5·6	28	- 5	Newton Rigg.
	p Newton Rigg	72	15th	48	17th, 21st	63·3	52·3	57·5	+ 1·6	109	0	7	1·32	+ 0·54	24·8	- 9·7	24	- 9	Stonyhurst.
	p Stonyhurst	75	15th	50	21st	64·1	53·6	58·5	+ 1·2	116	0	6	1·54	+ 0·46	33·3	- 4·0	32	- 4	Blackpool.
	p Blackpool M	72	15th	52	18th	63·7	55·4	59·3	+ 0·7	121	0	7	1·93	+ 1·19	*21·9*	- *9·3*	*21*	- *9*	*Prestwich.*
	p M'nch'ster, Prestwich	81	15th	49	17th, 21st	66·7	53·1	59·5	+ 1·7	123	0	6	1·99	+ 1·11	*37·1*	—	*36*	—	*Liverpool.*
	a Liverpool (Bidston)	75	15th	51	21st	64·4	55·7	59·8	+ 1·4	125	0	6	1·72	+ 1·03	*36·5*	- *2·6*	*35*	- *3*	*Southport.*
	a Hawarden Bridge	81	15th	52	17th	66·9	56·7	61·5	+ 1·7	137	0	6	1·83	+ 1·15	*38·1*	—	*37*	—	*Rhyl.*
8.	*p* Llandudno M	70	15th	53	18th, 21st	64·9	55·4	59·9	+ 0·6	125	0	7	1·96	+ 1·31	39·3	+ 1·3	38	+ 1	Llandudno.
	a Holyhead	68	15th	52	21st	62·7	54·4	58·3	- 0·6	114	0	6	1·04	+ 0·34	36·4	—	36	—	Aberdovey.
	p Bettws-y-Coed	82	15th	48	21st	66·1	54·0	59·7	+ 0·8	124	0	6	1·58	—	25·1	—	24	—	Bettws-y-Coed.
															34·3	—	34	—	Aberystwyth.
	a Llangammarch Wells	80	15th	44	17th	66·2	51·2	58·3	+ 1·2	114	0	6	1·02	—	29·1	—	29	—	Llangammarch Wells.
	a Pembroke	71	15th	52	17th	63·9	55·0	59·2	+ 0·5	120	0	6	1·40	+ 0·75	37·4	- 6·4	37	- 6	Pembroke.
	a Cardiff	79	15th	46	21st	68·2	52·3	59·8	- 0·5	125	0	7	1·98	+ 1·01	*38·1*	—	*38*	—	*Cardiff.*
															38·2	- *6·2*	*38*	- *6*	*Tenby.*
	a Clifton	83	15th	49	21st	69·9	56·9	63·0	+ 2·3	147	0	6	1·45	+ 0·66	*36·3*	—	*36*	—	*Clifton.*
	a Shaftesbury M	78	15th	48	21st	66·0	54·8	60·1	+ 1·4	127	0	5	1·49	+ 0·81	*	*	*	*	
	a Arlington	78	15th	48	21st	65·4	53·9	59·3	+ 1·6	121	0	6	1·53	+ 0·42	38·6	- 7·8	38	- 8	Newquay.
	a Cullompton M	81	15th	47	17th, 21st	69·9	54·1	61·5	+ 2·1	137	0	6	1·16	+ 0·48	33·7	- 7·5	33	- 7	Cullompton.
	a Portland Bill	78	15th	56	21st	65·4	58·9	62·0	+ 1·1	140	0	5	1·21	—	*36·9*	—	*37*	—	*Weymouth.*
	p Plymouth	78	15th	57	17th, 18th	68·3	59·3	63·5	+ 3·1	151	0	5	0·95	+ 0·31	33·6	-11·0	33	-11	Plymouth.
	p Falmouth	72	15th	52	21st	67·1	56·9	61·7	+ 1·8	138	0	6	0·92	+ 0·19	39·9	- 8·5	40	- 8	Falmouth.
															38·0	- *9·6*	*38*	-*10*	*Torquay.*
9. IRELAND, N.	*a* Malin Head	75	15th	50	17, 18, 21st	61·6	52·4	56·7	+ 0·2	103	0	6	0·61	- 0·19	*	*	*	*	
	a Blacksod Point	67	15th	48	18th	63·1	53·3	57·9	+ 0·5	111	0	7	0·70	- 0·38	*	*	*	*	
	p Markree Castle	75	15th	36	18th	65·3	47·6	55·9	- 0·3	97	0	6	0·92	- 0·06	44·8	+15·6	43	+15	Markree Castle.
	a Birr Castle	77	15th	42	17th, 18th	67·1	50·9	58·5	+ 0·9	116	0	5	0·16	- 0·74	*49·0*	+*16·6*	*48*	+*16*	*Birr Castle.*
	p Armagh	76	15th	42	18th	67·5	49·8	58·1	+ 1·3	118	0	5	0·35	- 0·52	49·6	+20·1	48	+19	Armagh.
	a Donaghadee	68	15th	47	17th	62·9	52·4	57·3	0·0	107	0	4	0·15	- 0·64	*	*	*	*	
10. IRELAND, S.	*p* Dublin, City	75	15th	50	17th	66·2	54·8	60·2	+ 0·9	127	0	6	0·68	- 0·07	41·3	+ 4·3	40	+ 4	Phœnix Park.
	a Kilkenny	70	15th, 16th	44	17th	66·9	51·0	58·5	+ 0·5	116	0	3	0·07	- 0·75	*	*	*	*	
	a Waterford	70	19th	45	17th	66·6	51·7	58·7	0·0	117	0	3	0·20	- 0·69	*	*	*	*	
	a Birr Castle	77	15th	42	17th, 18th	67·1	50·9	58·5	+ 0·9	116	0	5	0·16	- 0·74	49·0	+16·6	48	+16	Birr Castle.
	a Foynes	76	15th	47	17th, 18th	65·3	53·0	58·8	+ 0·4	118	0	6	0·46	- 0·45	*	*	*	*	
	a Cahir M	71	15th	44	17th	67·4	52·9	59·7	+ 1·7	124	0	5	0·34	—	*	*	*	*	
	a Killarney	75	15th	44	18th	68·2	52·8	60·0	+ 1·7	126	0	6	0·38	- 0·67	*	*	*	*	
	a Valencia	72	15th	51	17th	65·0	54·9	59·7	+ 1·1	124	0	6	0·44	- 0·71	42·6	+ 7·9	42	+ 8	Valencia.
	a Roche's Point	69	16th	51	17th, 18th	65·9	54·9	60·1	+ 1·3	127	0	3	0·42	- 0·48	44·1	—	44	—	Ballinacurra.
11. ENGLISH CHANNEL	*a* Scilly, St. Mary's	72	15th	57	18th, 21st	65·7	59·0	62·2	+ 1·5	141	0	5	0·80	+ 0·24	41·1	-10·5	41	-10	Scilly.
	a Jersey, St. Aubins	83	15th	55	21st	69·3	58·6	63·6	+ 1·0	151	0	5	0·69	+ 0·12	27·3	-27·7	27	-28	St. Heliers.
	a Guernsey	84	15th	54	21st	69·3	58·5	63·6	+ 1·9	151	0	3	0·57	- 0·03	33·2	-22·1	33	-22	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 31·8 hrs.* (*-17·5 hrs.*), *32 %* (*-17 %*); *Bournemouth, 35·2 hrs., 35 %*; *Bognor, 35·1 hrs.. 35 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	53·9	—
	— —				
	— —				
1.	Aberdeen	—	—	—	55·0
	Crathes	0	36	60·1	57·0
	Balmoral	0	40	—	—
	West Linton	0	41	—	—
	Marchmont	0	40	59·1	—
2.	Cockle Park	0	39	58·0	57·0
	Durham	0	42	—	—
	York	—	—	61·5	57·8
	Hull	0	43	61·4	56·4
	Lincoln	—	—	62·6	58·7
	Ranceby	0	42	64·5	58·2
3.	Norwich	0	47	—	—
	Yarmouth	—	—	65·1	61·0
	Lowestoft	0	46	64·8	60·6
	Cambridge	0	39	64·1	60·7
	Clacton-on-Sea	0	47	63·6	60·9
	Southend	0	52	66·0	—
	Tottenham	0	49	—	60·8
	Harrogate	0	45	58·4	56·5
	Huddersfield	0	45	62·3	56·2
	Buxton	0	42	60·8	54·8
	Sheffield	0	40	61·0	56·2
4.	Nottingham	0	44	62·7	60·2
	Birmingham	0	?39	58·3	54·1
	Oxford	0	—	—	—
	Hereford	0	36	—	—
	Cirencester	0	34	—	—
5.	Margate	0	52	63·2	59·5
	Greenwich	0	41	—	—
	Westminster	0	46	—	—
	Kew	0	42	64·2	59·1
	Canterbury	0	48	63·6	58·9
	Tunbridge Wells	0	44	65·7	—
	Wisley	0	41	63·8	60·8
	Worthing	0	46	65·2	60·8
	Portsmouth	0	47	65·9	62·4
6.	Glasgow	0	40	—	—
	Rothesay	—	—	—	55·9
	Colmonell	0	42	—	—
	Dumfries	0	43	61·3	59·0
	Douglas	0	43	—	—
7.	Aspatria	0	40	—	—
	Newton Rigg	0	42	61·9	57·4
	Burnley	0	44	59·0	55·2
	Southport	0	49	63·9	61·6
	Manchester City	0	39	62·2	58·6
	Bettws-y-Coed	0	48	58·6	54·6
8.	Llangammarch Wells	0	36	61·3	55·9
	Cardiff	0	41	62·9	59·2
	Clifton	0	48	—	—
	Bath	—	—	65·4	?
	Plymouth	0	47	66·7	—
9.	Armagh	0	37	62·6	58·8
	Markree	0	31	61·9	57·9
10.	Dublin, Trin. Coll.	0	43	62·7	58·9
11.	Guernsey, Brooklyn	0	50	65·5	62·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	52	52	52·0
	Kirkwall	58	56	57·2
	Wick	52	52	52·0
SCOTLAND, E.	Cromarty	56	54	55·3
	Pennan Bay	61	57	59·2
	Aberdeen, Cove Bay	58	51	54·2
ENGLAND, N.E.	Burnmouth, Berwick	57	54	55·4
	Scarborough	61	55	57·1
ENGLAND, E.	Shipwash Lightship	63	59	62·2
	Margate‡	67	64	65·4
ENGLAND, S.E.	Eastbourne‡	67	64	65·7
SCOTLAND, W.	Lamlash	58	56	57·2
	Ballantrae	59	57	58·2
ENGLAND, N.W.	Port Erin	59	56	57·0
ENGLAND, S.W.	Newquay	63	62	62·3
	Plymouth‡	63	59	60·2
	Salcombe	61	59	60·4
IRELAND, N.W.	Sheephaven	63	60	61·4
	Teelin	66	59	61·6
IRELAND, S.W.	Cleggan	62	57	59·4
	Seafield	66	61	63·9
IRELAND, E.				

‡ Only one observation each day.

Corrections and Additions for July, 1909.

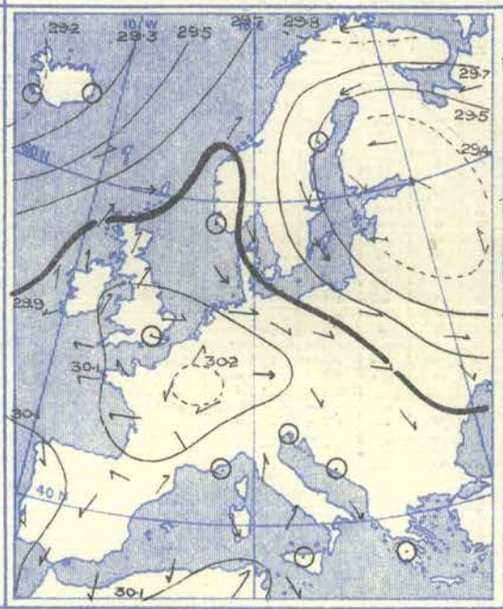
NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Daily Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 26, p. 210	0. Scotland, N.	—	—	—	—	—	—	—	—	—	—	—	0·32	-0·41	—	—	—	—
No. 29, p. 234	0. Scotland, N.	—	—	—	—	—	—	—	—	—	—	—	—	—	32	+4	27	+3
Station Values.— Additions.																		
No. 27, p. 219	Poltalloch	—	—	47	10th	—	49·3	54·1	-3·1	85	0	—	—	—	—	—	—	—
No. 28, p. 227	West Linton	—	—	—	—	—	—	—	—	—	—	—	—	—	31·0	—	26	—
No. 28, p. 227	Poltalloch	—	—	44	12th	—	49·3	54·5	-2·9	88	0	—	—	—	—	—	—	—
No. 30, p. 243	Newcastle	—	—	—	—	—	—	—	—	—	—	—	—	—	22·5	-9·8	20	-9
No. 30, p. 243	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	—	—	41·3	—	38	—
No. 30, p. 243	Sheffield	—	—	—	—	—	—	—	—	—	—	—	—	—	31·0	—	28	—
Station Values.— Corrections.																		
No. 26, p. 211	Birmingham, Edgbsn.	—	—	—	—	—	—	—	—	—	—	—	0·28	-0·22	—	—	—	—
No. 26, p. 211	Poltalloch	—	—	47	1st	—	49·1	56·1	-0·5	99	—	—	—	—	—	—	—	—
No. 27, p. 219	Hillington	—	—	—	—	—	51·2	57·9	-1·3	111	—	—	1·03	+0·46	—	—	—	—
No. 27, p. 219	Wisley	—	—	—	—	66·7	—	59·1	-2·2	120	—	—	—	—	—	—	—	—
No. 27, p. 219	Glasgow	—	—	—	—	61·7	—	55·5	-1·0	95	—	—	—	—	—	—	—	—
No. 27, p. 219	Cahir	67	8th	—	—	62·7	—	56·7	-1·7	103	—	—	—	—	—	—	—	—
No. 28, p. 227	Scarborough	—	—	—	—	—	—	—	—	—	—	3	0·52	0·00	—	—	—	—
No. 29, p. 235	Deerness	—	—	—	—	—	—	—	—	—	—	—	—	—	50·2	+18·9	41	+15
No. 29, p. 235	Nairn	—	—	—	—	—	—	—	—	—	—	4	0·39	-0·18	—	—	—	—
No. 29, p. 235	Scarborough	—	—	—	—	—	52·9	60·1	+1·4	127	—	—	0·19	-0·36	—	—	—	—
No. 29, p. 235	York	—	—	—	24th	—	52·4	58·5	-1·6	116	—	—	—	—	—	—	—	—
No. 29, p. 235	Yarmouth	—	—	—	—	—	53·1	61·0	+0·8	133	—	—	—	—	—	—	—	—
No. 29, p. 235	Cheadle	—	20, 22	—	—	65·9	—	57·4	-0·9	108	—	—	—	—	—	—	—	—
No. 30, p. 243	Glencarron	—	—	—	—	—	—	—	—	—	—	—	0·97	-0·37	—	—	—	—
No. 30, p. 243	Cheadle	—	—	—	—	62·9	—	55·2	-3·0	92	—	—	—	—	—	—	—	—
No. 30, p. 243	Dungeness	—	—	55	26, 27, 29	—	56·6	60·4	-0·9	129	—	—	—	—	—	—	—	—
No. 30, p. 243	Aspatria	—	—	46	28th	64·2	50·1	56·7	-0·1	103	—	—	—	—	—	—	—	—
No. 30, p. 243	Blackpool	—	—	—	—	—	—	—	—	—	—	—	1·62	+0·95	—	—	—	—
No. 30, p. 243	Cahir	—	29,30,31	—	—	63·8	—	57·0	-1·9	105	—	—	—	—	—	—	—	—
												Grass Min. No. of Days.	Grass Min. Lowest reading.			Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.	
Station Values.— Additions.																		
No. 28, p. 228	Portsmouth											—	—			62·1	58·2	
No. 25, p. 228	Lowestoft											0	45			61·4	58·6	

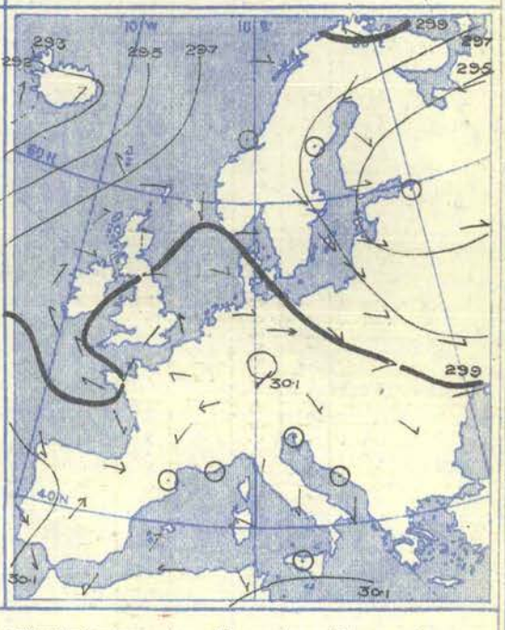
Sunday, 15th August, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over these Islands and their neighbourhood, but foggy at Holyhead and Pembroke. Less settled, with rain in places, in the north and north-east of our area. A little rain later in the far west and north-west of these Islands, and some thunderstorms in the west of France. Rain falling over a large part of Russia and Sweden.

Temperature risen decidedly in the north and east of Great Britain. Readings in morning above 65° in the south-east of England, and above 60° over the United Kingdom generally; above 70° over the Mediterranean region, and above 80° at some stations. Readings low over Russia and its vicinity; below 50° over a large area. Thermometer rising to above 80° during day over central and southern England, and to nearly 80° in central Ireland and in some parts of Scotland. Maxima above 90° at various places in France and the south of Europe, 102° at Rochefort, 104° at Brindisi, and 108° at Madrid. Subsequent night very warm over England; minimum in London no lower than 66°.

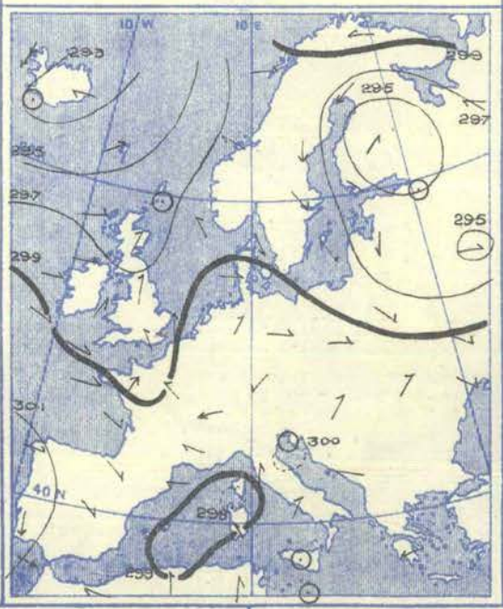
Wind in morning showing an anticyclonic movement over this country and France, and a very extensive cyclonic circulation over the north-east of Europe; North-Westerly current strong to a gale over Scandinavia. No great change during day beyond the transference of the anticyclonic movement further east.

Barometer in morning ranging from about 30·2 ins. in central France, and above 30·1 ins. in Portugal, to below 29·4 ins. in a large depression over Russia and Finland, and below 29·2 ins. in another system off the west of Iceland. High pressure system moving eastwards during day, and decreasing somewhat in intensity; pressure giving way briskly over the Bay of Biscay and in the west and south of this country. A shallow depression developing off our south-west coasts.

Monday, 16th August, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.

Weather in morning changeable, with rain at times, over the United Kingdom and its neighbourhood, and overcast, with rain in places, in Germany and Finland. Fair to very fine over the greater part of southern Europe and the Mediterranean. Rain and thunderstorms later over a very large portion of these Islands and France, and some heavy rain over Switzerland, the Low Countries, and in Norway.

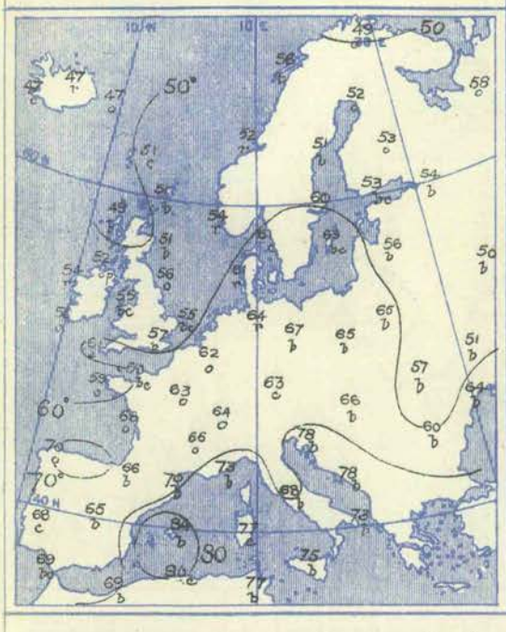
Temperature changed rather irregularly. Readings in morning 70° in London, and about 65° over a considerable portion of England; between 70° and 80° at most stations in the south of our area, and as high as 89° at Algiers; about 65° in the central countries, and about 50° in the far north. Maxima during day not much above 70° in any part of England, but above 75° very generally over France and the central countries, and above 80° in many localities. Thermometer rising to 90° and above in some parts of Spain, and to above 100° in Algeria.

Wind in morning mainly between West and North in the extreme west of our area, and Southerly over the North Sea region. Cyclonic circulations prevailing over Iceland, Russia, and the Mediterranean, but little force generally. A North-North-East gale blowing at Isafjord. No change of importance during day.

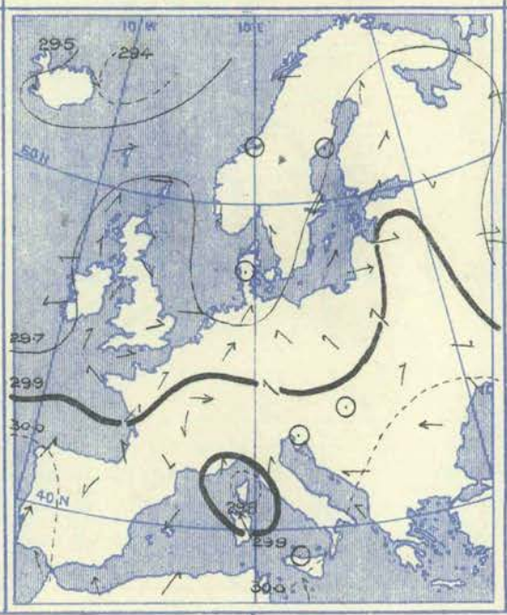
Barometer in morning above 30·1 ins. in Portugal, and low in depressions over this country, Iceland, the western portion of the Mediterranean, and northern Russia and Finland. Little change in the general distribution of pressure during day. Disturbance over England travelling slowly eastwards, and undergoing some modification in form. Recovery of pressure in its rear very slight.

Tuesday, 17th August, 1909.

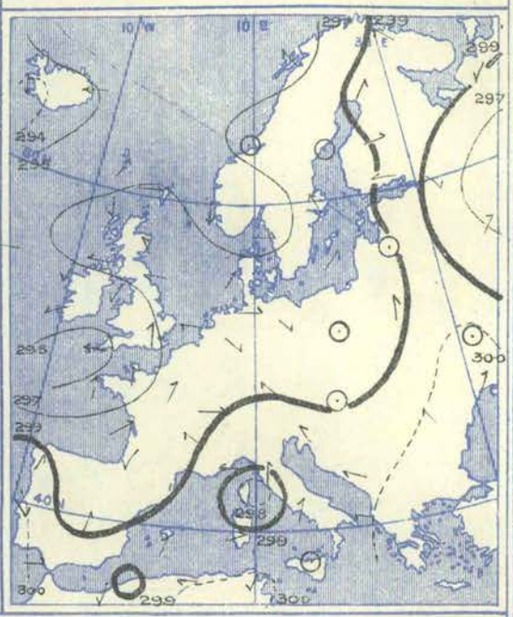
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over the major portion of our area, but overcast, with rain in places, in Ireland, Norway, Denmark, and North Germany, as well as at Turin. More than 0·5 in. of rain over a large portion of England and Wales during day, and more than an inch at several stations. Considerable or heavy falls of rain in many French localities, and also at Berlin, Lugano, and in Norway. A thunderstorm occurring at Bordeaux.

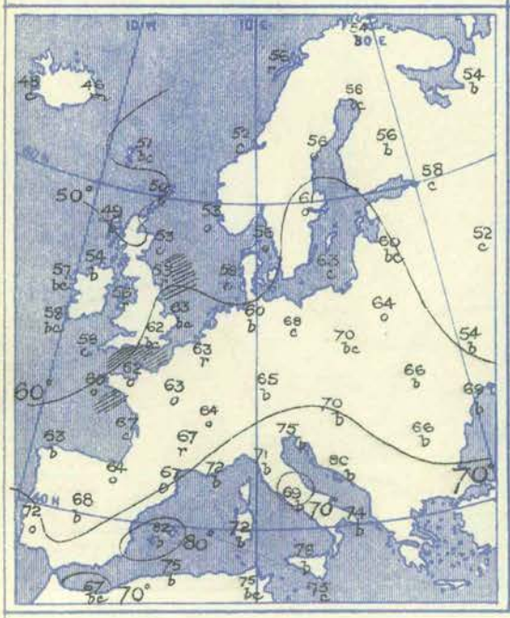
Temperature fallen over these Islands and their immediate vicinity. Readings in morning below 55° at most of our own stations, and only 46° at Nairn. Above 70° in the south of our area generally, and above 80° in places; above 60° over the greater part of the Continent. Maxima during day below 70° at almost all our own stations, and no higher than 60° at several of the more northern stations. Thermometer rising to above 80° in various parts of central Europe, and to about 90° over a large part of southern Europe.

Wind in morning very light in force nearly everywhere, and rather variable in direction, but mainly between South and East over Ireland, and from the Westward in Great Britain. Southerly over the Baltic and most of Scandinavia and Finland. Backing to South-East or East later in England, and increasing to a strong breeze on the Channel. A well-marked cyclonic circulation setting in around Corsica.

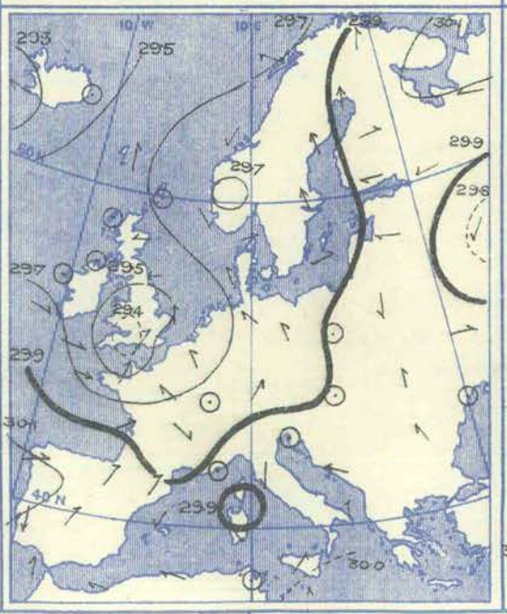
Barometer in morning above 30·0 ins. in the south-east and south-west of our area, and relatively high over these Islands. Below 29·8 ins. in a depression over the Mediterranean, and below 29·4 ins. in a larger system to the eastward of Iceland. A large, shallow "V" shaped disturbance shown over Norway and Denmark. A rather deep disturbance extending over the south-west of these Islands and Brittany later. Pressure increasing somewhat in Scotland and Norway during day.

Wednesday, 18th August, 1909.

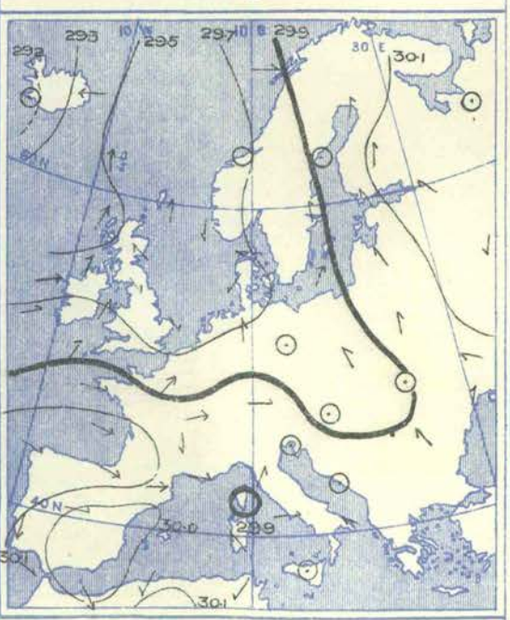
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled over Great Britain and the nearer regions of the Continent, with rain in several places. Fair to fine in Ireland and over the major portion of the Continent, but much cloud and some rain in Scandinavia. Rain later throughout these Islands, with thunderstorms in the central and eastern parts of England. Considerable amounts of rain on the eastern and southern shores of the North Sea and also in Switzerland.

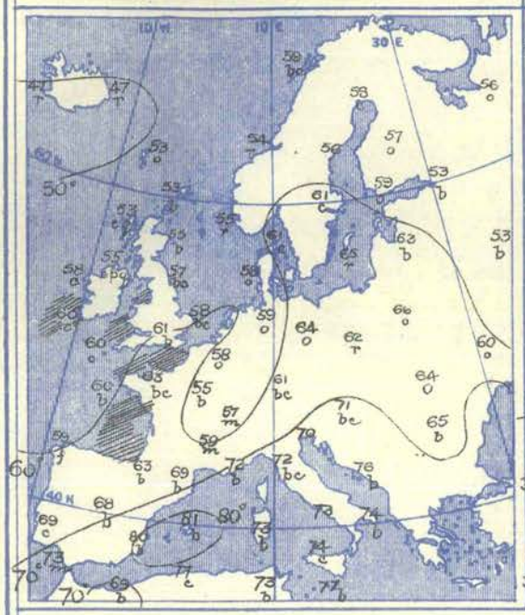
Temperature showing no decided change. Morning readings below 50° at Nairn, but about 60° over a large part of England, about 65° in the central countries, about 70° over the Mediterranean region generally, and above 80° at Palma. Maxima during day below 70° at nearly all our own stations, and below 60° on the north-east coast of England. Between 70° and 80° in Germany, and above 80° in Austria-Hungary, Italy, and the Spanish Peninsula; as high as 93° at Madrid and also at Bucharest.

Wind in morning showing a complete cyclonic movement over these Islands; North-Easterly and Northerly currents strong on the Welsh coast, Westerly current high at Scilly and in Brittany, and that from the Southward strong on the south and south-east coasts of England. Light winds, mainly cyclonic, over other parts of our area. Wind veering to West or North-West during day over the greater part of England, and blowing freshly or strongly.

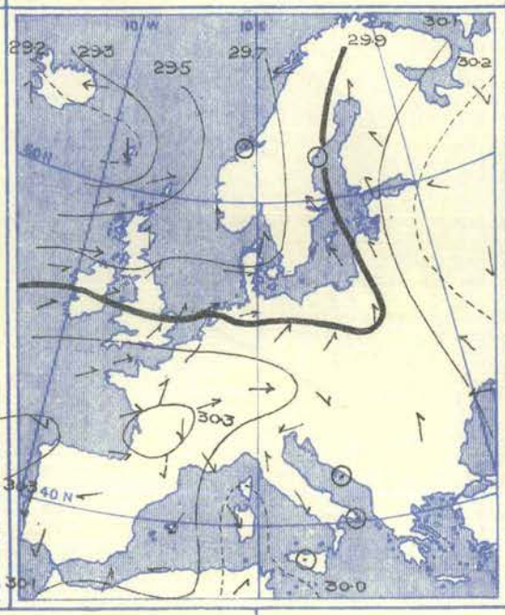
Barometer in morning above 30·1 ins. in the extreme south-west and north-east of our area; below 29·4 ins. in a depression having its centre not far from Portland Bill, and relatively low in the far east, south, and north-west of our area. Depression travelling north-eastwards to the North Sea during day, and a fresh depression extending over Iceland and the Hebrides. Barometer rising briskly in the south-west of England and also in Russia.

Thursday, 19th August, 1909.

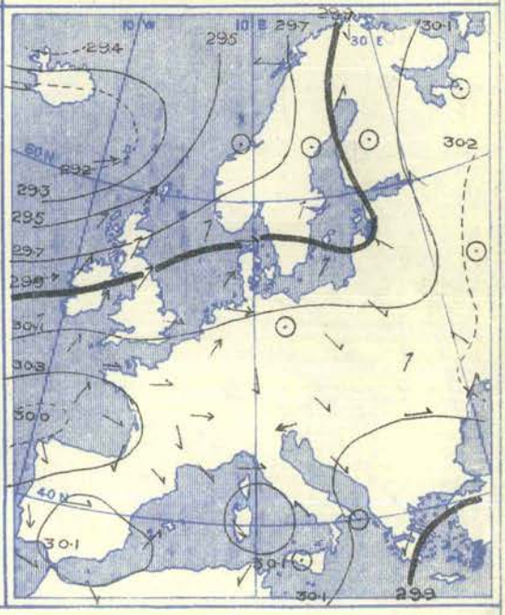
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair but unsettled over most parts of these Islands and the north-west of our area generally; rain falling at Malin Head and Nottingham, and also in some Scandinavian localities. Some rain in central Europe and at Trieste, but fair to fine and bright in nearly all other regions. Continuing fine and bright over France and the south of Europe, but more or less rain falling over the central and north-western parts of the Continent—nearly an inch at Lemberg.

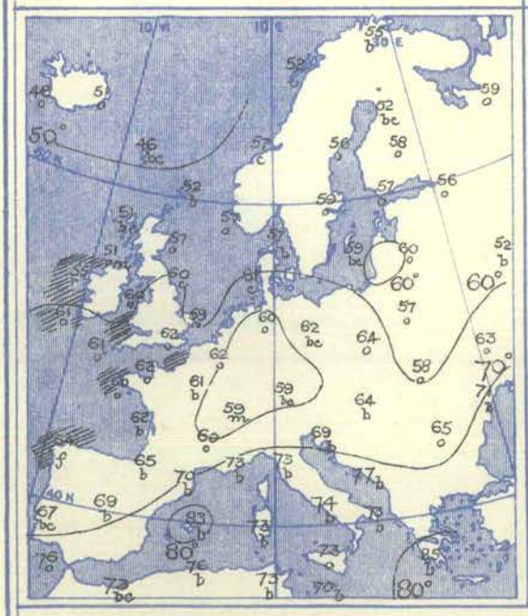
Temperature in morning ranging from above 70° very generally in the south, and about 80° in a few places, to about 60° in the south of England and the north of France, and to about 55° in Scotland and Norway. Readings above 65° in Poland, and 70° at Memel. Maxima during day about 70° in Germany, the Low Countries, and over the south and east of England, and only slightly lower in southern Ireland; above 80° very generally over the south of our area, and above 90° at some stations. Highest readings, 95° at Bucharest and 97° at Madrid.

Wind in morning Westerly to South-Westerly, fresh to strong, in places, over the United Kingdom and its neighbourhood, and fresh or strong from the Eastward in Iceland. Light or moderate breezes from no general direction elsewhere. No great change later in day; a South-Easterly gale setting in in the north-west of Iceland.

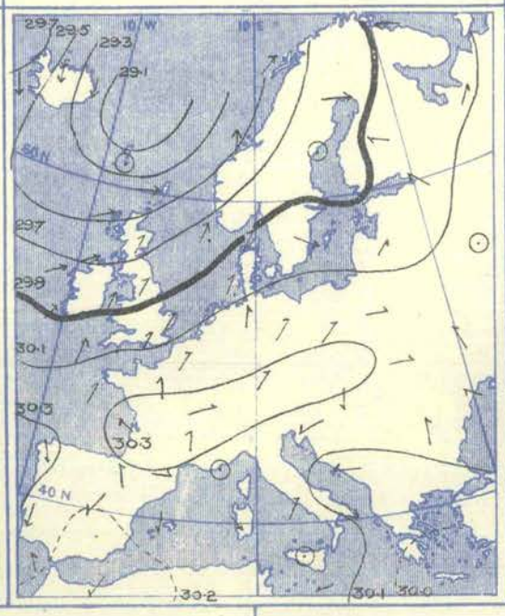
Barometer in morning 30·2 ins. to above 30·3 ins. in an anticyclone extending from the Azores to South Germany, and above 30·2 ins. over Russia; below 29·2 ins. in a large depression between the Hebrides and Iceland, and relatively low over the western part of the Mediterranean. Scarcely any change in the general distribution during day; pressure increasing somewhat in the United Kingdom and also in the west of Iceland.

Friday, 20th August, 1909.

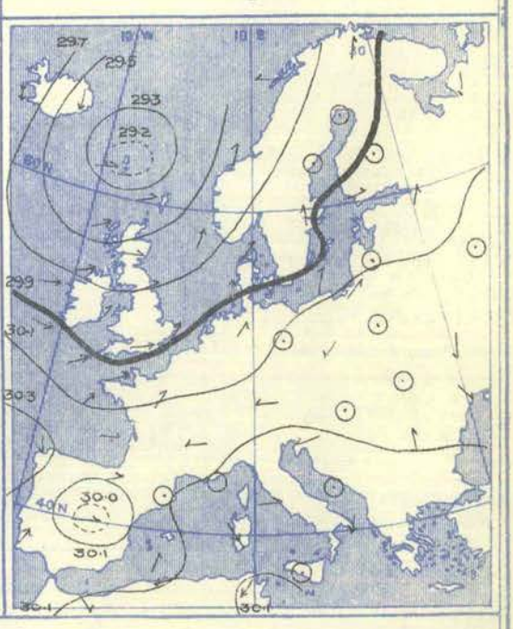
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning showery and unsettled throughout the United Kingdom, and overcast in some localities on the Continent, but generally fair to very fine and bright. Considerable or heavy rains later over these Islands and the adjacent part of the Continent, as well as in Finland and Scandinavia; more than an inch at Dungeness and Cape Gris Nez, and also at Nantes, and nearly an inch at Helsingfors. Thunder heard at Clacton-on-Sea.

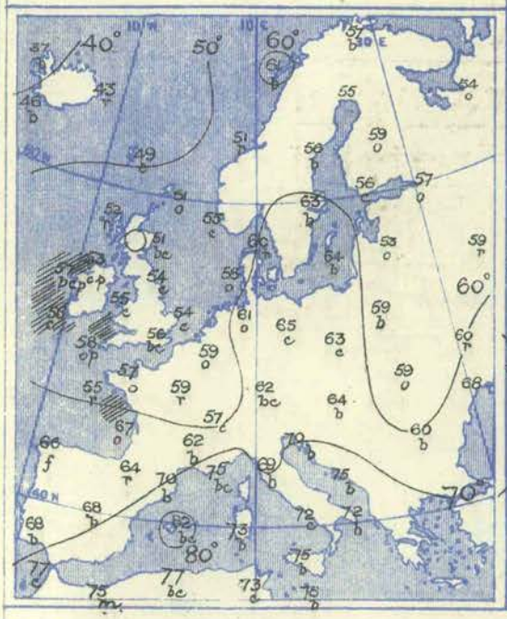
Temperature fallen over the central countries, changed rather irregularly elsewhere. Readings in morning about 60° over England and the south of Ireland, and also over a very large portion of the Continent; above 70° over nearly the whole of the Mediterranean region, and above 80° in a few places. Maxima during day below 70° over these Islands, but between 70° and 80° over the major portion of the Continent, above 80° at numerous places in the south, and above 90° in a few localities. Highest reading, 97° at Madrid.

Wind in morning strong to a gale from North in Iceland, and light to fresh or strong from West and South-West over these Islands, the North Sea, and Scandinavia. Light anticyclonic breezes prevailing over the central countries and the greater part of France. Very little change during day; increasing somewhat in force on the English Channel.

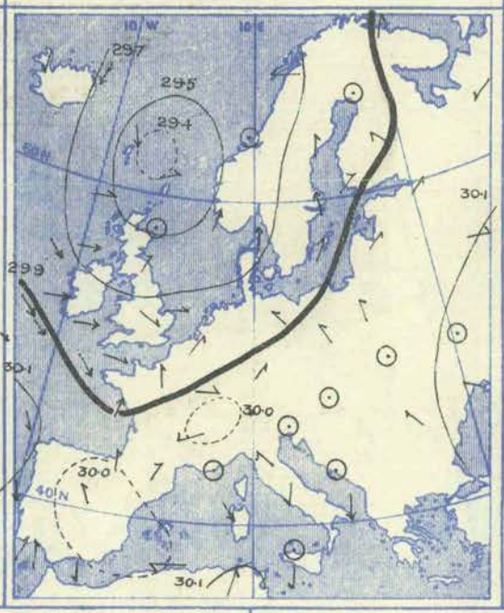
Barometer in morning above 30·3 ins. in an anticyclonic system extending from the Azores across the Bay of Biscay and France to Poland. Below 29·1 ins. in a well-marked depression having its centre far to the northward of Scotland. Some secondary disturbances developing rather quickly during day over England and the Channel. Main depression in north scarcely changing its position, but pressure increasing steadily in Iceland. Little modification occurring in the general distribution.

Saturday, 21st August, 1909.

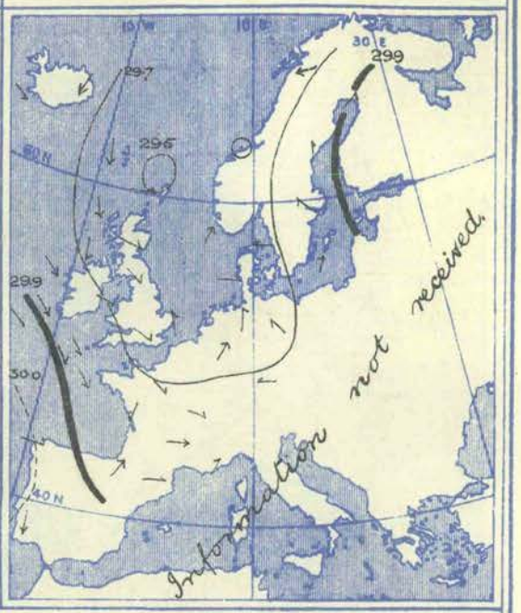
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy on the coast of Kent and on the extreme north-west coast of these Islands, as well as on the coast of Brittany and at a few stations scattered over a very large area on the Continent. Fair to very fine generally, especially in the south. Some rain later in nearly all parts of the United Kingdom, France, Holland, and Denmark, and also in Norway. Amounts heavy at several French stations; more than an inch at Paris. Thunder heard at Nairn, and lightning seen at some southern stations.

Temperature fallen over these Islands and their vicinity. Morning readings below 50° at Nairn, and below 55° over a large part of this country. Above 60° over various parts of central and northern Europe, and above 70° very generally in the far south. Maxima during day below 60° in the extreme north of these Islands, and below 65° at many southern stations; above 70° in Germany, and above 80° over the southern half of France.

Wind in morning showing a well-marked cyclonic circulation over the United Kingdom and the north-west of our area generally; Northerly current blowing a gale in the east of Iceland. Light and rather variable airs prevailing over the southern and eastern regions. Veering further towards North during day in this country, and blowing a fresh breeze in places. Gale in Iceland subsiding.

Barometer in morning above 30·2 ins. in the south of Russia and also on the Atlantic beyond Portugal. Below 30·0 ins. in a shallow depression over Spain, and below 29·4 ins. in a well-defined system off the north of Scotland. Some very shallow secondaries shown over England. Northern depression becoming less deep during day, but secondaries over England increasing in intensity and at the same time moving eastwards. Barometer rising decidedly on our north-west coast.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 300 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	August 16th, 5.0 p.m. to 5.55 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	288° 100% 281°, 5	287° 100% 281°, 8	286° 100% 282°, 10	281° 100% 300°, 16	279° 100% 312°, 17			278° 100% 310°, 17	1,600	Overcast. Moderate breeze. Clouds, Cu.-Ni. 10. Ascent made just after thunderstorm.
2	August 17th, 5.0 p.m. to 7.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	288° 80% 125°, 5	287° 77% 126°, 7	286° 76% 128°, 9	283° 75% 145°, 11	278° 76% 162°, 14	275° 77% 160°, 13		275° 77% 158°, 13	2,050	Fine to fair. Gentle breeze, Cu. and Cu.-Ni. 8. Large fall in temperature.
3	August 18th, 12.37 p.m. to 1.47 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 100% 315°, 5	283° 100% 320°, 8	282° 100% 330°, 9	280° 100% 350°, 11				279° 100% 340°, 12	1,300	Dull and wet. Moderate breeze. Clouds, Ni. 10.
4	August 19th, 3.20 p.m. to 8.53 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	288° 77% 258°, 6	287° 77% 254°, 7	282° 77% 251°, 9	281° 85% 246°, 12	276° 95% 260°, 13			275° 99% 270°, 13	1,700	Fair to cloudy. Clouds, Cu.-Ni.
5	August 20th, 6.12 a.m. to 7.2 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 88% 194°, 7	286° 90% 210°, 12	286° 90% 225°, 13	284° 95% 250°, 13				283° 97% 250°, 13	1,100	Fair, overcast, rather stormy. Fresh breeze. Clouds, Cu.-Ni. 10.
6	August 21st, 9.29 a.m. to 10.54 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281° 94% 270°, 5	280° 95% 268°, 6	279° 95% 266°, 7	273° 92% 268°, 10	270° 97% 260°, 12			269° 100% 250°, 12	1,630	Dull and unsettled to wet. Gentle breeze. Clouds, Cu. and Cu.-Ni.

Correction.—In last week's report, p. 264. Kite ascent No. 4. should read August 11th, 8.28 p.m. to 9.5 p.m.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6
No. of Kites or Balloons	1	2	1	1	1	1
Area of Surface (sq. metres) ..	7·5	15	7·5	7·5	7·5	7·5
Length of Wire (metres)	2,300	3,100	1,800	2,600	1,200	1,300

Additional Ascents from the Howard Estate Observatory, Glossop.

Date 1909.	Time.	Maximum height. Metres.	Apparatus used.	Date 1909.	Time.	Maximum height. Metres.	Apparatus used.
August 16th.	7.30 p.m. to 8.50 p.m.	1,600	Kite.	August 19th.	12.26 p.m. to 1.27 p.m.	1,560	Kite.
August 17th.	10.30 a.m. to 10.42 a.m.	1,640	Pilot Balloon.	" "	9.11 p.m. to 9.23 p.m.	670	"
" "	11.25 p.m. ——	1,180	Kite blown away in gale.	" "	10.0 p.m. to 11.5 p.m.	750	"
" "	8. 8 p.m. to 10.0 p.m.	1,400	Kite.	August 20th.	7.56 a.m. to 8.30 a.m.	945	"
August 18th.	7.55 a.m. to 8.25 a.m.	900	"	" "	7. 6 a.m. to 7.35 a.m.	1,075	"
" "	8.42 a.m. to 9.50 a.m.	880	Two Kites on one wire.	August 21st.	12. 5 p.m. to 1. 5 p.m.	1,450	"
" "	4.55 p.m. to 5.42 p.m.	1,320	Kite.				

63, Victoria Street, London, S.W. *August 25th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 34. THIRTY-FOURTH WEEK, SUNDAY AUGUST 22ND TO SATURDAY AUGUST 28TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—During the greater part of the week the conditions were unsettled, and falls of rain frequent, but by Friday a general improvement set in except on the extreme north-western and northern coasts. More than an inch of rain fell in some parts of Kent and Sussex on Tuesday, and thunderstorms were very common over the south-eastern quarter of England on Wednesday. Thunder and lightning were also experienced at a few places in the south-east on Sunday.

Temperature was below the average, the deficit being more than 2° over a considerable portion of England and in the east of Scotland. The highest of the maxima were recorded either on the 27th or 28th in most places, and ranged from 74° in the English Channel, and 72° in England S.W., to 66° in Scotland N. and Ireland N. The lowest of the minima, which occurred at most stations very early in the week, ranged from 34° in England S.W., and 36° in Scotland E., to 43° in England E., and to 48° in the English Channel. The lowest grass minima reported were 29° at Birmingham and Llangammarch Wells, 32° at Hereford, Glasgow and West Linton, 33° at Crathes and Cirencester, and 34° at Manchester.

Mean Temperature of the Sea.—On most parts of the coast the mean temperature of the water differed little from that of the same period last year, but at Cromarty it was about 4° colder, and on the south-west coast of Ireland about 4° warmer. The actual values ranged from 63°·1 at Eastbourne, 62°·9 at Margate, and 61°·7 at Newquay to 52° at Wick, and to 51°·6 at Lerwick and Aberdeen.

Rainfall was more than the average in Scotland E. and W., Ireland N. and England S.E., the excess in the last-named district being large. Over the Kingdom as a whole the fall was less than the normal.

Bright Sunshine was less than the average in all districts except England S.W. The percentage of the possible duration ranged from 50 in the English Channel and 41 in England S.W., to 18 in Scotland N. and E., and to 11 in Ireland N.

Barometer and Wind.—During the earlier days of the week the centre of a depression moved in an easterly direction across the northern part of these Islands, causing Easterly winds in the far north and a South-Westerly to North-Westerly current over the Kingdom generally. By Thursday the eastern edge of an anticyclone began to extend over this country from the Atlantic, and this system continued the chief factor over England and the south of Ireland until the end of the period. The northern and north-western districts, however, came under the influence of a large disturbance over the Icelandic region, and the wind increased to a fresh or strong breeze from the South-Westward.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 276.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Moderate	Moderate	Moderate	Light	Heavy	Heavy	Moderate	Moderate	Moderate	Very light	Moderate
	Sunshine ...	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Very scanty	Very scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 12 weeks from June 6th, 1909.	Warmth ...	1 * 6	1 * 7	2 * 6	2 * 8	2 * 6	2 * 9	1 * 6	1 * 7	2 * 6	1 * 4	1 * 4	2 * 7
	Rainfall ...	3 * 5	2 * 6	5 * 5	5 * 3	4 * 4	5 * 4	4 * 3	5 * 4	4 * 5	1 * 5	1 * 8	2 * 6
	Sunshine ...	4 * 3	4 * 3	1 * 7	3 * 6	3 * 6	3 * 7	2 * 4	3 * 5	4 * 4	3 * 4	4 * 4	4 * 4

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5

8083 450 Wy. & S. Ltd. 9—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-FOURTH WEEK—August 22nd to August 28th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	66	39	58·0	47·6	52·5	- 1·9	74	- 13	0	0	6	+ 2	0·65	- 0·35	19	- 8	18	- 7
Eastern																		
1. SCOTLAND, EAST	68	36	59·5	46·8	52·8	- 2·8	76	- 19	0	0	5	+ 1	0·80	+0·05	19	- 15	18	-15
2. ENGLAND, N.E.	69	42	62·7	49·7	55·8	- 1·7	97	- 12	0	0	4	0	0·44	- 0·18	23	- 12	23	-12
3. ENGLAND, EAST	71	43	65·2	50·8	57·6	- 1·8	109	- 13	0	0	4	0	0·46	- 0·10	29	- 13	29	-13
4. MIDLAND COUNTIES	71	39	64·5	48·9	56·3	- 2·1	100	- 15	0	0	4	+ 1	0·35	- 0·30	30	- 7	39	- 8
5. ENGLAND, S.E.	71	38	65·5	51·4	58·0	- 2·6	112	- 18	0	0	4	0	1·10	+0·47	34	- 9	35	- 9
Western																		
6. SCOTLAND, WEST	69	37	60·9	48·8	54·5	- 1·8	88	- 12	0	0	5	+ 1	1·32	+0·23	28	- 6	28	- 6
7. ENGLAND, N.W.	69	41	61·4	50·3	55·8	- 2·1	97	- 14	0	0	5	+ 1	0·58	- 0·31	23	- 11	23	-11
8. ENGLAND, S.W.	72	34	64·2	51·8	57·6	- 1·3	109	- 10	0	0	4	0	0·69	- 0·17	41	0	41	0
9. IRELAND, NORTH	66	42	61·1	50·4	55·4	- 1·1	94	- 8	0	0	5	0	1·05	+0·11	11	- 19	11	-19
10. IRELAND, SOUTH	70	41	63·7	51·3	57·1	- 0·8	106	- 6	0	0	4	- 1	0·30	- 0·68	20	- 14	20	-14
11. ENGLISH CHANNEL	74	48	65·9	55·7	60·5	- 0·9	130	- 6	0	0	3	- 1	0·37	- 0·28	49	- 1	50	- 1

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 12 Weeks, June 6th to August 28th, 1909.

0. SCOTLAND, NORTH	72	35	*	*	*	*	943	- 81	0	- 2	55	+ 4	8·24	-1·22	353	- 12	25	- 1
Eastern																		
1. SCOTLAND, EAST	80	30	*	*	*	*	1057	- 92	0	- 1	45	+ 1	6·67	- 0·93	442	- 11	32	- 1
2. ENGLAND, N.E.	85	33	*	*	*	*	1242	- 53	0	0	44	+ 5	8·28	+1·94	425	- 74	32	- 6
3. ENGLAND, EAST	85	35	*	*	*	*	1345	-109	0	0	43	+ 6	6·78	+0·73	495	- 59	37	- 4
4. MIDLAND COUNTIES	86	33	*	*	*	*	1298	-112	0	0	42	+ 5	7·68	+1·27	450	- 48	34	- 4
5. ENGLAND, S.E.	86	35	*	*	*	*	1392	-137	0	0	39	+ 4	7·13	+1·29	517	- 56	40	- 4
Western																		
6. SCOTLAND, WEST	78	32	*	*	*	*	1122	- 95	0	0	46	0	10·78	+0·89	493	+ 16	36	+ 1
7. ENGLAND, N.W.	82	32	*	*	*	*	1202	-136	0	0	46	+ 4	8·84	+0·81	456	- 39	34	- 3
8. ENGLAND, SW.	89	30	*	*	*	*	1339	- 75	0	0	42	+ 1	7·31	- 0·37	555	+ 12	42	+ 1
9. IRELAND, NORTH	78	33	*	*	*	*	1167	- 64	0	0	50	- 2	6·94	- 2·01	377	- 26	28	- 2
10. IRELAND, SOUTH	81	36	*	*	*	*	1321	- 40	0	0	41	- 4	5·01	- 3·76	444	- 10	33	- 1
11. ENGLISH CHANNEL	84	42	*	*	*	*	1486	- 50	0	0	30	-11	3·68	- 2·42	678	+ 11	52	+ 1

THE YEAR.—Aggregates, &c., for the Period of 34 Weeks, January 3rd to August 28th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1372	-100	535	- 22	158	+ 3	24·67	- 5·63	850	- 10	26	0
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	1535	-145	673	+ 53	132	+ 4	20·93	+2·07	986	- 34	31	- 1
2. ENGLAND, N.E.	85	14	*	*	*	*	1840	- 7	580	+105	118	+ 2	17·63	+2·81	1082	- 19	34	- 1
3. ENGLAND, EAST	85	12	*	*	*	*	2014	-131	554	+ 33	118	+ 6	14·91	+0·54	1259	+ 70	40	+ 2
4. MIDLAND COUNTIES	86	8	*	*	*	*	2018	-111	642	+109	110	- 1	16·49	+0·37	1136	+ 71	36	+ 2
5. ENGLAND, S.E.	86	0	*	*	*	*	2094	-202	482	+101	110	+ 4	17·03	+1·58	1334	+130	43	+ 4
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	1709	-100	445	+ 20	129	- 6	28·30	+0·59	1098	+ 48	35	+ 2
7. ENGLAND, N.W.	82	10	*	*	*	*	1839	-123	466	+ 80	123	0	20·77	+0·45	1176	+110	37	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2024	-155	390	+ 89	120	- 1	19·82	-1·94	1301	+121	42	+ 4
9 IRELAND, NORTH	78	14	*	*	*	*	1839	- 52	315	- 30	149	+ 2	20·97	-1·94	952	- 12	30	0
10. IRELAND, SOUTH	81	15	*	*	*	*	2146	- 34	265	+ 6	135	+ 4	20·50	- 3·79	1104	+ 28	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	2448	- 7	151	+ 42	108	-20	15·74	- 2·28	1542	+111	50	+ 4

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts	Names of Stations	Temperature. Highest observed.	Date.	Lowest observed	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N. — a, Islands	*p Balta Sound* S	*56*	*27th*	*40*	*23rd*	*54·2*	*46·2*	*50·0*	—	56	*0*	*2*	*0·25*	—	*19·9*	—	*19*	—	*Balta Sound.*
	a Sumburgh Head ..	57	22nd	40	23rd	54·4	45·3	49·6	- 2·5	53	0	6	0·45	- 0·24	17·0	- 9·5	16	- 9	Deerness.
	a Stornoway	59	28th	41	23rd	56·7	47·6	51·9	- 1·9	69	0	5	0·56	- 0·40	14·8	- 14·8	14	- 14	Stornoway.
	a Castlebay, Barra Isd.	*59*	*28th*	*48*	*22nd, 26th*	*57·1*	*49·9*	*53·3*	- *3·0*	*79*	*0*	*6*	*0·47*	—	*30·7*	—	*30*	—	*Castlebay.*
	a Wick	62	27th	39	22nd	57·1	46·4	51·4	- 2·6	66	0	6	1·23	+ 0·59	*	*	*	*	
SCOTLAND, N. — b, Mainland	*p* Strathpeffer	64	28th	46	23rd	60·3	48·1	53·8	- 1·0	83	0	6	0·32	- 0·26	20·8	- 6·5	20	- 6	Strathpeffer.
	p Glencarron	62	24th	45	22nd	57·4	47·4	52·1	- 1·2	71	0	6	0·86	- 0·84	*	*	*	*	
	p Fort Augustus	64	28th	47	22, 23, 26th	59·6	49·3	54·1	- 1·2	85	0	6	0·48	- 0·34	21·2	+ 0·9	21	+ 1	Fort Augustus.
	p Fort William	66	28th	45	26th	60·7	49·0	54·5	- 1·0	88	0	6	0·68	- 0·76	*	*	*	*	
1. SCOTLAND, E.	*p* Gordon Castle S	66	28th	43	22nd	59·8	47·2	53·1	- 2·5	78	0	6	0·66	- 0·07	*10·7*	—	*10*	—	*Gordon Castle.*
	a Nairn	65	28th	43	22nd, 23rd	60·0	45·4	52·3	- 3·1	72	0	6	0·56	+ 0·01	18·0	—	*18*	—	Nairn.
	a Aberdeen	67	28th	46	22nd	59·3	49·9	54·3	- 1·4	86	0	6	0·80	+ 0·17	16·3	- 17·4	16	- 17	Aberdeen.
	a Balmoral ..	61	24th, 28th	40	26th	58·0	44·6	50·9	- 1·6	62	0	5	0·75	- 0·06	13·3	—	13	—	Crathes S.
	p Crieff	68	27th	40	26th	61·7	47·0	53·9	- 2·6	83	0	4	1·15	+ 0·22	30·0	—	29	—	Balruddery
	a Leith	65	27th	46	26th	61·0	49·3	54·8	- 2·9	90	0	5	0·80	+ 0·18	20·6	- 11·5	20	- 11	Edinburgh.
	a West Linton .. S	61	27th	36	26th	57·1	44·4	50·4	- 3·8	59	0	6	0·97	—	*17·1*	—	*17*	—	*West Linton.*
	p Marchmont .. S	64	27th	41	26th	58·9	46·6	52·4	- 2·4	73	0	5	0·68	- 0·07	12·9	- 19·7	13	- 20	Marchmont.
2. ENGLAND, N.E. — a, North	*a* Alnwick Castle ..	62	27th, 28th	45	26th	59·4	49·8	54·3	- 1·8	86	0	4	0·68	0·00	17·8	—	18	—	Cockle Park.
	a Shields	65	28th	42	22nd	60·6	47·4	53·6	- 3·4	81	0	4	0·71	+ 0·12	*17·2*	*- 11·6*	*17*	*- 12*	*Newcastle.*
	p Durham	66	27th	43	22nd	61·2	48·2	54·3	- 2·8	86	0	4	0·44	- 0·11	20·9	- 11·7	21	- 12	Durham.
	p Rounton .. M	66	28th	43	22nd	62·3	47·8	54·6	- 1·9	88	0	4	0·29	- 0·29	*	*	*	*	
	p Scarborough .. M	67	28th	48	22nd	63·7	51·3	57·1	- 0·7	106	0	3	0·25	- 0·35	21·1	—	21	—	Scarborough.
	p York	68	28th	46	28th	64·6	50·9	57·3	- 0·9	107	0	3	0·17	- 0·39	27·3	- 5·7	27	- 6	York.
b, South	*a* Spurn Head	68	28th	51	22, 23, 28th	63·9	53·0	58·1	- 0·8	113	0	2	0·32	- 0·13	*	*	*	*	
	a Lincoln	69	28th	43	28th	63·9	49·5	56·3	- 2·8	100	0	4	0·59	+ 0·09	27·5	—	28	—	Skegness.
	a Fulbeck	69	28th	44	28th	64·3	49·3	56·4	- 2·6	101	0	5	0·52	- 0·04	23·1	—	23	—	Rauceby.
															32·4	—	*33*	—	*Lowestoft.*
	p Cromer	69	28th	47	22nd, 27th	64·7	51·5	57·7	- 0·8	110	0	4	0·21	—	24·1	—	24	—	Cromer.
	p Hillington .. M	65	23rd, 24th	43	22nd	62·6	49·3	55·6	- 3·3	95	0	4	0·72	+ 0·69	17·1	- 22·1	17	- 22	Hillington.
a, North	*a* Yarmouth	69	24th	46	22nd	64·7	51·1	57·5	- 1·9	109	0	4	0·43	- 0·10	31·9	—	32	—	Yarmouth.
	a Norwich	71	28th	46	22nd	65·9	51·0	58·0	- 1·6	112	0	4	0·28	—	*	*	*	*	
	p Geldeston	70	24th	45	28th	65·8	50·6	57·7	- 1·3	110	0	3	0·27	- 0·23	21·4	- 20·9	22	- 21	Geldeston.
3. ENGLAND, E.	*p* Cambridge	70	28th	45	22nd, 28th	66·3	49·9	57·6	- 2·4	109	0	4	0·38	- 0·14	31·1	- 10·3	31	- 10	Cambridge.
	a Felixstowe	*59*	*24th*	*48*	*22nd, 28th*	*65·6*	*52·3*	*58·6*	- *1·9*	*116*	*0*	*4*	*0·73*	—	*39·5*	—	*40*	—	*Felixstowe.*
b, South	*a* Clacton-on-Sea ..	71	24th	48	22nd	66·6	52·1	58·9	- 1·8	118	0	4	1·11	—	39·4	—	40	—	Clacton.
	a Rothamsted ..	67	28th	43	28th	64·1	49·4	56·3	- 2·3	100	0	3	0·30	- 0·27	30·6	- 10·8	31	- 11	Rothamsted.
	a Shoeburyness ..	*70*	*24th*	*48*	*22nd*	*66·4*	*52·6*	*59·1*	- *2·6*	*120*	*0*	*3*	*1·35*	+ *0·86*	*34·1*	—	*34*	—	*Southend.*
	p Tottenham	70	28th	48	22nd	66·4	52·3	58·9	- 1·3	118	0	4	0·43	—	32·2	—	33	—	Tottenham.
4. MIDLAND COUNTIES. — a, East	*a* Harrogate	65	28th	43	28th	61·2	48·4	54·4	- 2·1	87	0	4	0·44	- 0·19	23·7	—	24	—	Harrogate.
	a Bawtry	70	28th	44	28th	65·1	48·7	56·4	- 2·0	101	0	4	0·37	- 0·15	23·3	- 9·1	23	- 9	Worksop.
	p Buxton .. M	*65*	*28th*	*43*	*28th*	*59·4*	*48·5*	*53·6*	- *1·7*	*81*	*0*	*5*	*0·48*	- *0·52*	*26·4*	—	*26*	—	*Buxton.*
	a Nottingham ..	69	28th	43	28th	64·4	49·0	56·2	- 2·4	99	0	5	0·20	- 0·34	23·9	—	24	—	Nottingham.
	p Birmingham, Edgbsn	69	28th	46	28th	63·6	50·8	56·8	- 1·4	104	0	4	0·05	- 0·56	26·2	—	27	—	Birmingham.
	a Raunds .. M	71	28th	43	22nd, 27th	66·7	49·1	57·4	- 1·4	108	0	4	0·15	—	*	*	*	*	
	a Oxford	69	28th	45	22nd, 28th	64·9	50·4	57·2	- 2·4	106	0	4	0·53	+ 0·03	31·1	- 9·5	31	- 10	Oxford.
	a Cheadle .. M	67	28th	41	22nd, 27th	61·1	46·8	53·5	- 3·0	81	0	5	0·50	- 0·26	30·6	—	31	—	Sheffield.
b, West	*p* Shrewsbury	70	28th	39	28th	64·5	49·5	56·6	- 1·8	102	0	4	0·55	—	*	*	*	*	
	a Hereford .. M	70	28th	41	28th	66·6	48·8	57·2	- 1·7	106	0	4	0·17	- 0·38	*	*	*	*	
	a Cirencester	68	27th	40	28th	64·7	47·0	55·3	- 2·4	93	0	4	0·42	- 0·23	34·5	- 5·2	35	- 5	Cirencester.
	a Bath	69	27th, 28th	42	28th	66·6	49·9	57·8	- 1·5	111	0	2	0·46	- 0·15	42·5	—	43	—	Bath.
															32·5	—	*33*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	69	28th	48	22nd	65·5	52·3	58·5	- 1·5	116	0	4	0·46	- 0·06	32·6	- 8·7	33	- 9	Kew.
	a Marlborough ..	69	28th	38	28th	64·4	45·9	54·6	- 2·8	88	0	4	0·58	- 0·02	30·1	- 9·0	30	- 9	Marlborough.
	a Margate	68	24th	52	23rd	65·3	55·0	59·8	- 1·4	125	0	4	1·48	+ 1·03	25·4	- 16·3	26	- 16	Margate.
	a Wisley, Surrey ..	70	28th	44	22nd	65·7	50·0	57·4	- 3·4	108	0	4	0·97	—	34·4	—	35	—	Wisley.
	a Swarraton .. M	70	28th	42	22nd	64·7	48·6	56·2	- 2·3	99	0	3	0·80	+ 0·18	34·2	—	35	—	Worthing.
	a Tunbridge Wells M	69	28th	46	22nd, 28th	65·6	50·2	57·4	- 1·8	108	0	3	1·19	+ 0·68	33·7	- 9·4	34	- 10	Tunbridge Wells.
	a Dungeness	67	25, 26, 28th	47	22nd	65·9	52·6	58·9	- 1·9	118	0	4	1·64	+ 1·19	35·0	—	36	—	Littlestone.
	p Hastings	68	25th	47	22nd	65·0	53·5	58·9	- 1·8	118	0	4	1·81	+ 1·27	*35·5*	*- 11·1*	*36*	*- 11*	*Hastings.*
	p Southampton ..	71	28th	46	22nd	67·3	51·6	59·0	- 2·4	119	0	3	0·83	+ 0·24	42·6	- 3·0	44	- 3	Southampton.
	a Ventnor	70	28th	50	27th	65·1	54·1	59·3	- 2·4	121	0	3	1·24	+ 0·74	37·4	- 8·8	38	- 9	Ventnor.
															37·3	- 8·0	38	- 8	Eastbourne.
LONDON .. — ..	*a Westminster* ..	*70*	*28th*	*48*	*22nd*	*66·0*	*53·0*	*59·1*	- *1·5*	*120*	*0*	*3*	*0·50*	- *0·02*	*30·5*	- *6·2*	*31*	- *6*	*Westminster.*
	a Greenwich	*72*	*24th, 28th*	*45*	*23rd*	*67·8*	*50·7*	*58·7*	- *2·4*	*117*	*0*	*3*	*0·70*	+ *0·23*	*30·2*	- *15·0*	*31*	- *15*	*Greenwich.*
6. a, SCOTLAND. W. ..	*p* Laudale	63	25th	45	26th	?60·3	?48·5	?54·1	? - 1·9	?85	0	?6	?1·72	?+0·26	*	*	*	*	
	a Poltalloch .. S	62	25th	40	26th	59·4	47·6	53·2	- 3·2	78	*0*	6	1·32	+ 0·22	*	*	*	*	
	p Glasgow	64	25th	42	26th, 27th	59·6	48·2	53·6	- 2·2	81	0	4	1·34	+ 0·44	25·2	- 3·8	25	+ 4	Glasgow.
	p Rothesay .. S	64	25th	45	26th	60·7	49·7	54·9	- 1·3	90	0	5	1·36	+ 0·27	*	*	*	*	
	a Kilmarnock ..	69	26th	37	26th	62·7	45·8	53·7	- 2·2	82	0	5	1·15	—	*20·0*	—	*20*	—	*Kilmarnock.*
	a Colmonell ..	65	25th	46	22nd, 26th	61·9	49·9	55·5	- 1·3	95	0	5	1·39	+ 0·42	*	*	*	*	
	p Dumfries ..	63	28th	47	22nd	60·4	50·9	55·4	- 2·0	94	0	5	0·94	+ 0·06	*23·1*	—	*23*	—	*Dumfries*
	p Cally, Gatehouse S	67	27th	42	26th	63·0	47·5	54·8	- 0·7	90	0	5	1·16	+ 0·10	*	*	*	*	
b, ISLE OF MAN ..	*p* Douglas	66	24th	48	28th	60·3	51·0	55·4	- 0·9	94	0	4	1·46	+ 0·51	30·6	- 7·9	31	- 8	Douglas.
															26·5	—	27	—	Hoylake.
7. a, ENGLAND, N.W.	*p* Aspatria	64	27th	45	26th	60·9	49·9	55·1	- 1·4	92	0	5	1·32	+ 0·33	23·9	—	24	—	Aspatria.
	p Newton Rigg ..	64	27th	41	26th	60·1	47·7	53·5	- 1·8	81	0	5	0·42	- 0·37	16·0	- 17·4	16	- 17	Newton Rigg.
	p Stonyhurst ..	63	28th	45	28th	59·9	50·8	55·1	- 1·6	92	0	6	0·73	- 0·36	19·8	- 13·6	20	- 14	Stonyhurst.
	p Blackpool .. M	63	24th	46	26th	61·2	52·8	56·8	- 1·2	104	0	5	0·42	- 0·42	28·5	- 7·2	29	- 7	Blackpool.
	p M'nch'ster, Prestwich	67	28th	44	28th	61·9	50·6	55·9	- 1·6	97	0	5	0·78	- 0·10	*20·2*	*- 9·3*	*20*	*- 10*	*Prestwich.*
	a Liverpool (Bidston)	64	23rd	50	23rd	60·9	52·6	56·5	- 1·2	102	0	5	0·26	- 0·43	*29·0*	—	*29*	—	*Liverpool.*
	a Hawarden Bridge ..	69	28th	46	28th	63·5	51·4	57·1	- 2·2	106	0	4	0·38	- 0·28	*27·4*	*- 10·2*	*27*	*- 10*	*Southport.*
															26·1	—	*26*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	65	23rd	44	22nd, 23rd	62·3	49·9	55·7	- 3·4	96	0	5	0·41	- 0·24	23·7	- 13·0	24	- 13	Llandudno.
	a Holyhead	63	24th, 25th	51	23rd	61·3	52·3	56·5	- 2·1	102	0	6	0·40	- 0·39					Aberdovey.
	p Bettws-y-Coed ..	65	28th	42	28th	62·0	50·1	55·7	- 2·7	96	0	6	0·69	—	21·5	—	22	—	Bettws-y-Coed.
															24·0	—	24	—	Aberystwyth.
a, SOUTH WALES ..	*a* Llangammarch Wells	67	28th	34	28th	61·8	47·1	54·0	- 2·7	84	0	4	0·29	—	28·5	—	29	—	Llangammarch Wells.
	a Pembroke	64	23rd	49	22nd	61·4	52·4	56·6	- 1·7	102	0	3	0·20	- 0·47	42·7	+ 0·2	43	0	Pembroke.
	a Cardiff	67	27th, 28th	46	22nd	64·7	50·3	57·1	- 2·6	106	0	3	0·47	- 0·49	*45·5*	—	*46*	—	*Cardiff.*
															37·0	*- 6·0*	*37*	*- 6*	*Tenby.*
8.	*a* Clifton	68	23, 27, 28th	48	28th	66·1	52·7	59·0	- 1·2	119	0	3	0·37	- 0·42	*43·6*	—	*44*	—	*Clifton.*
	a Shaftesbury .. M	68	27th, 28th	45	22nd	64·4	50·0	56·8	- 1·4	104	0	4	1·01	+ 0·33	*	*	*	*	
	a Arlington	65	23rd, 28th	45	28th	62·4	50·9	56·3	- 1·0	100	0	5	0·95	- 0·18	48·5	+ 3·0	50	+ 3	Newquay.
b, ENGLAND, S.W. ..	*a* Cullompton .. M	72	28th	43	28th	68·2	50·4	58·8	0·0	118	0	5	0·84	+ 0·17	43·9	+ 3·2	45	+ 3	Cullompton.
	a Portland Bill ..	67	28th	54	22nd	63·6	56·3	59·7	- 1·0	124	0	3	0·33	—	*50·6*	—	*52*	—	*Weymouth.*
	p Plymouth	68	25th	47	22nd	65·0	53·4	58·9	- 1·2	118	0	5	1·06	+ 0·42	46·6	+ 2·9	48	+ 3	Plymouth.
	p Falmouth	67	23rd	51	28th	64·0	54·3	58·9	- 0·6	118	0	4	0·87	+ 0·12	50·2	+ 3·2	51	+ 3	Falmouth.
															51·0	+ *5·0*	*52*	+ *5*	*Torquay.*
9. IRELAND, N. — a, West	*a* Malin Head	61	22, 23, 28th	49	23rd	59·3	51·4	55·1	- 1·2	92	0	5	1·37	+ 0·59	*	*	*	*	
	a Blacksod Point ..	61	22, 25, 26th	52	22nd, 26th	60·4	53·3	56·6	- 0·4	102	0	7	1·40	+ 0·30	*	*	*	*	
	p Markree Castle ..	62	25, 26, 28th	47	22nd, 28th	61·0	49·6	55·0	- 0·8	91	0	6	1·32	+ 0·33	9·8	- 18·7	10	- 19	Markree Castle.
	a Birr Castle	66	24th	42	26th	63·3	48·9	55·7	- 1·4	96	0	4	0·51	- 0·38	*11·9*	*- 20·2*	*12*	*- 20*	*Birr Castle.*
IRELAND, N. — b, East	*p* Armagh	63	27th, 28th	46	22nd, 26th	61·4	49·4	55·0	- 1·3	91	0	5	1·04	+ 0·19	11·2	- 17·8	11	- 18	Armagh.
	a Donaghadee	64	23rd, 28th	45	27th	61·0	49·6	55·0	- 1·8	91	0	5	0·66	- 0·11	*	*	*	*	
10. IRELAND, S. — a, East	*p* Dublin, City	67	28th	48	22nd	63·0	52·4	57·4	- 1·4	108	0	4	0·31	- 0·43	10·9	- 25·5	11	- 26	Phœnix Park.
	a Kilkenny	66	28th	41	28th	63·6	49·0	55·9	- 1·5	97	0	3	0·17	- 0·64	*	*	*	*	
	a Waterford	69	26th	44	23rd	65·3	50·4	57·4	- 0·7	108	0	2	0·21	- 0·67	*	*	*	*	
	a Birr Castle	66	24th	42	26th	63·3	48·9	55·7	- 1·4	96	0	4	0·51	- 0·38	11·9	- 20·2	12	- 20	Birr Castle.
	a Foynes	64	28th	47	26th	62·0	53·1	57·3	- 0·6	107	0	6	0·51	- 0·38	*	*	*	*	
b, West	*a* Cahir .. .. M	70	28th	43	28th	63·9	49·6	56·3	- 1·2	109	0	4	0·32	—	*	*	*	*	
	a Killarney	68	28th	45	28th	65·6	52·2	58·5	+ 0·6	116	0	5	0·37	- 0·69	*	*	*	*	
	a Valencia	63	23, 24, 28th	48	28th	62·1	53·1	57·3	- 0·9	107	0	5	0·25	- 0·89	19·0	- 15·0	19	- 15	Valencia.
	a Roche's Point ..	66	28th	49	28th	64·1	52·9	58·2	- 0·3	113	0	2	0·09	- 0·81	36·9	—	38	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	67	23rd	56	28th	63·9	57·4	60·5	+ 0·1	130	0	3	0·55	- 0·02	54·5	+ 4·1	56	+ 4	Scilly.
	a Jersey, St. Aubins ..	70	28th	48	28th	67·0	54·7	60·5	- 1·9	130	0	3	0·14	- 0·46	47·0	- 6·4	48	- 7	St. Heliers.
	a Guernsey	74	28th	51	28th	66·8	55·0	60·6	- 0·8	130	0	2	0·43	- 0·22	54·7	- 7·5	47	- 8	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 38·5 hrs. (- 9·1 hrs.), 39 % (- 9 %); Bournemouth, 32·9 hrs., 41 % ; Bognor, 37·1 hrs., 38 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	52·3	—
	— —				
	— —				
1.	Aberdeen	—	—	—	54·5
	Crathes	0	33	57·7	56·6
	Balmoral	0	36	—	—
	West Linton	0	32	—	—
	Marchmont	0	35	55·6	—
2.	Cockle Park	0	33	54·0	54·9
	Durham	0	38	—	—
	York	—	—	59·1	57·6
	Hull	0	42	59·1	57·0
	Lincoln	—	—	59·7	58·3
	Rauceby	0	37	60·4	58·1
3.	Norwich	0	41	—	—
	Yarmouth	—	—	61·4	60·4
	Lowestoft	0	43	61·7	60·4
	Cambridge	0	36	60·8	60·1
	Clacton-on-Sea	0	42	60·9	60·6
	Southend	0	46	62·0	—
	Tottenham	0	45	—	60·6
4.	Harrogate	0	38	56·0	55·7
	Huddersfield	0	38	58·1	56·1
	Buxton	0	35	57·5	55·1
	Sheffield	0	36	57·6	56·2
	Nottingham	0	39	58·0	59·3
	Birmingham	1	29	54·9	54·0
	Oxford	0	—	—	—
	Hereford	0	32	—	—
	Cirencester	0	33	—	—
5.	Margate	0	47	60·5	59·0
	Greenwich	0	36	—	—
	Westminster	0	43	—	—
	Kew	0	41	61·3	59·1
	Canterbury	0	43	59·7	60·1
	Tunbridge Wells	0	42	62·1	—
	Wisley	0	39	60·8	60·2
	Worthing	0	42	61·7	60·4
	Portsmouth	0	45	62·5	61·6
6.	Glasgow	0	32	—	—
	Rothesay	—	—	—	55·4
	Colmonell	0	43	—	—
	Dumfries	0	43	58·0	58·4
	Douglas	0	45	—	—
7.	Aspatria	0	40	—	—
	Newton Rigg	0	38	58·3	56·7
	Burnley	0	36	56·1	55·0
	Southport	0	40	60·9	60·5
	Manchester City	0	34	58·9	58·9
	Bettws-y-Coed	0	41	55·9	54·6
8.	Llangammarch Wells	1	29	58·4	56·0
	Cardiff	0	38	59·8	58·8
	Clifton	0	45	—	—
	Bath	—	—	62·4	?
	Plymouth	0	43	63·5	—
9.	Armagh	0	41	59·6	58·3
	Markree	0	38	59·7	57·9
10.	Dublin, Trin. Coll.	0	43	59·1	58·4
11.	Guernsey, Brooklyn	0	44	62·7	62·1

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	52	51	51·6
	Kirkwall	57	55	56·2
	Wick	52	52	52·0
SCOTLAND, E.	Cromarty	54	53	53·2
	Pennan Bay	59	54	56·4
	Aberdeen, Cove Bay	55	50	51·3
ENGLAND, N.E.	Burnmouth, Berwick	55	54	54·5
	Scarborough	58	56	57·0
ENGLAND, E.	Shipwash Lightship	63	61	62·0
	Margate‡	64	62	62·9
ENGLAND, S.E.	Eastbourne‡	64	63	63·1
SCOTLAND, W.	Lamlash	55	54	54·8
	Ballantrae	60	58	58·8
ENGLAND, N.W.	Port Erin	58	56	56·6
ENGLAND, S.W.	Newquay	63	61	61·7
	Plymouth‡	59	57	58·2
	Salcombe	61	59	60·1
IRELAND, N.W.	Sheephaven	60	60	60·0
	Teelin	61	58	59·5
IRELAND, S.W.	Cleggan	60	56	58·3
	Seafield	63	60	61·4
IRELAND, E.	.. .. ..			

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

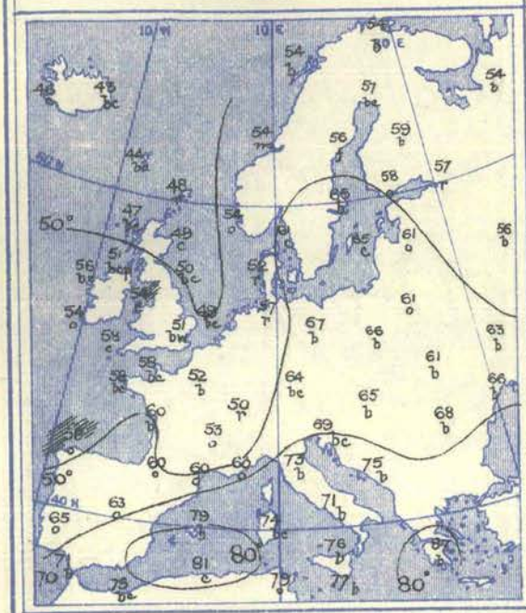
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

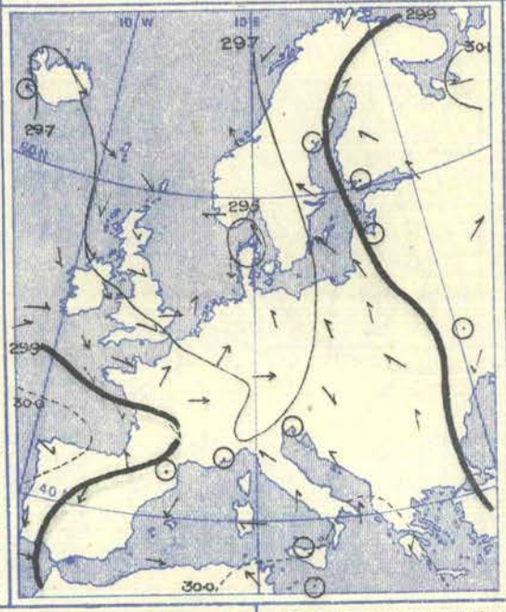
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 22nd August, 1909.

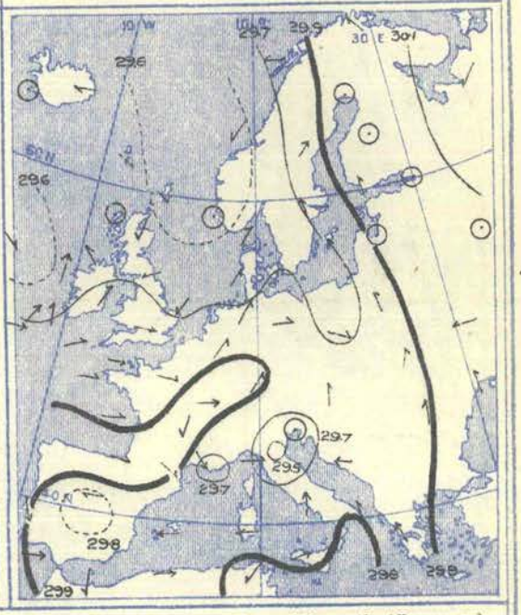
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying a good deal; very cloudy or overcast over Denmark, Germany, the east of France, and north of Italy, with rain or showers in places. Cloudy to fair in these Islands generally, but local showers in several places. Mostly fine and bright over the Mediterranean and in southern Russia. Showers falling later in most parts of this country, and a thunderstorm occurring at Dungeness. Thunderstorms also at Paris, Flushing, and Rome, and in other parts of Italy. Heavy rain in various parts of Switzerland and over the northern half of Italy—more than two inches at Rome.

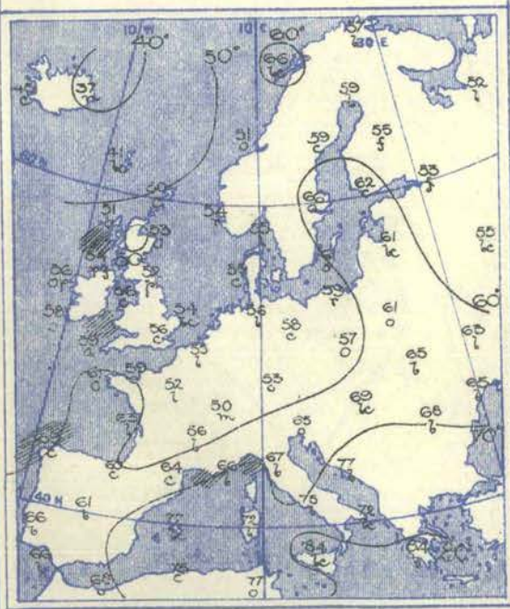
Temperature fallen over this country and its neighbourhood. Morning readings below 50° over a large portion of these Islands, and very little higher in the north of France. Above 60° over the Continent as a whole, and above 70° in the south of our area. Maxima during day below 60° at many places in the north of this country, and below 65° at most southern stations. Maxima low in the north of France and the Netherlands, but above 80° over most of central and southern Europe, and above 90° in Greece.

Wind in morning mainly North-Westerly in the United Kingdom and the north of France, and from some Southerly point beyond the North Sea. Scarcely any force stronger than a moderate breeze. Light to moderate winds from various directions prevailing over the Mediterranean, and a light to fresh Northerly to North-Westerly breeze in Spain. Backing generally in these Islands during day, and becoming Southerly by evening on the west coasts of Ireland and Scotland. Increasing in force in various parts of southern Europe, as well as over the Baltic.

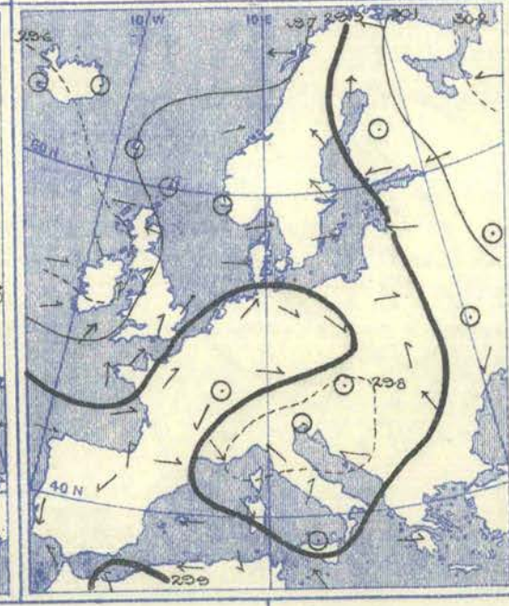
Barometer in morning above 30·0 ins. both in the far south-west and north-east of our area. Below 29·5 ins. in a large depression having its centre over the Skager Rock, and relatively low over the western portion of the Mediterranean. A small, but deep, depression forming during day over Italy and the Adriatic, and a fresh disturbance approaching the north-west of these Islands.

Monday, 23rd August, 1909.

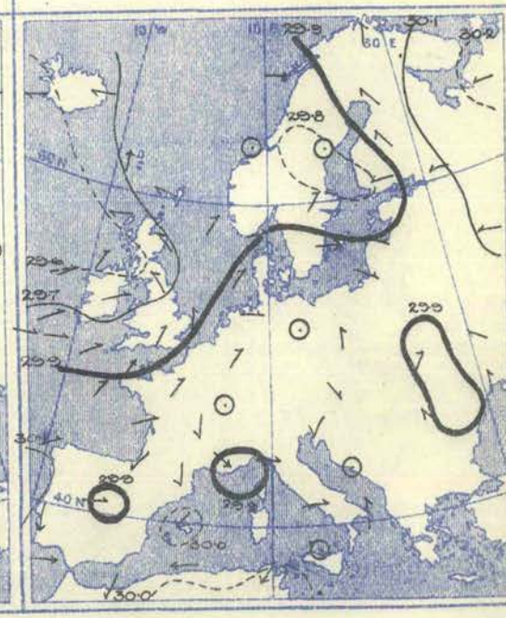
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled, with rain in places, over the United Kingdom, and variable, with some rain, over the central countries and Scandinavia. Generally fair to very fine over the south and extreme north of our area, but rain falling at Alicante. Rain falling later over the whole of these Islands, as well as in Sweden, parts of Finland, and Central Europe.

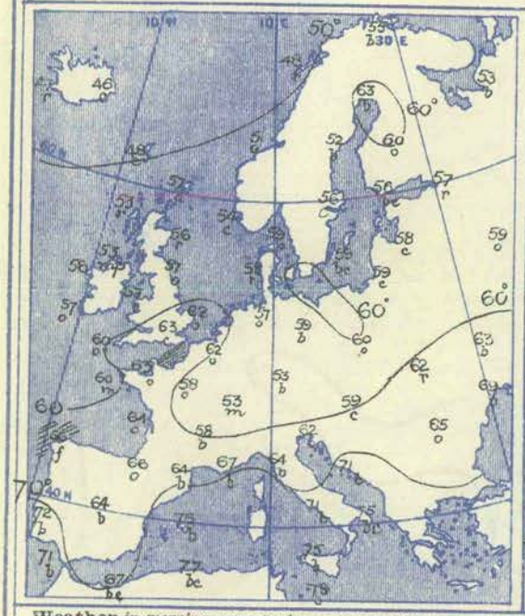
Temperature risen in these Islands, fallen in central Europe. Morning readings about 60° in the south of England, but as low as 46° at Nairn. Above 60° over the southern half of our area as a whole, but only 50° at Belfort, and 55° at Lugano. Thermometer above 80° at Palermo and in Greece. Maxima during day below 70° over the United Kingdom, and below 65° at most stations; below 65° in some parts of Austria and Germany, but above 80° in the south of our area, and about 90° in places.

Wind in morning South-Westerly to Southerly over Ireland and England, and Easterly in Scotland. Strong from various points at some stations on the shores of the Baltic, and fresh or strong from the Northward on some shores of the Mediterranean. Increasing in force from the Southward on the south and south-east coasts of England by evening, but no change as a whole.

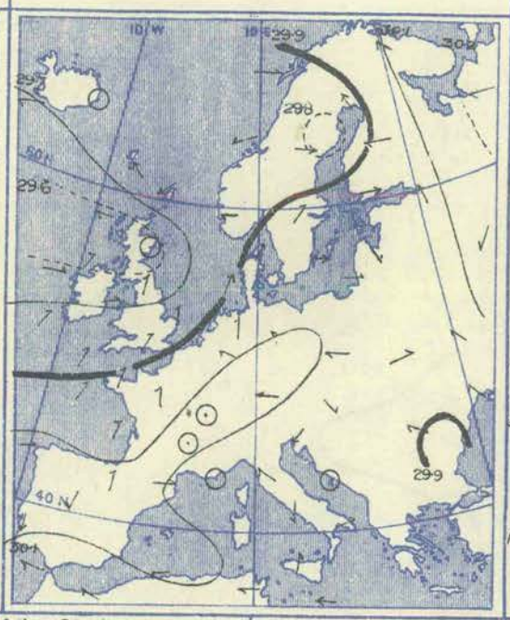
Barometer in morning above 30·2 ins. in the north of Russia; below 29·6 ins. in a depression extending from the Atlantic and covering Ireland, and below 29·8 ins. in a large disturbance over northern Italy and the regions surrounding. Scarcely any change in the general distribution of pressure during day; some ill-defined secondary disturbances forming over England.

Tuesday, 24th August, 1909.

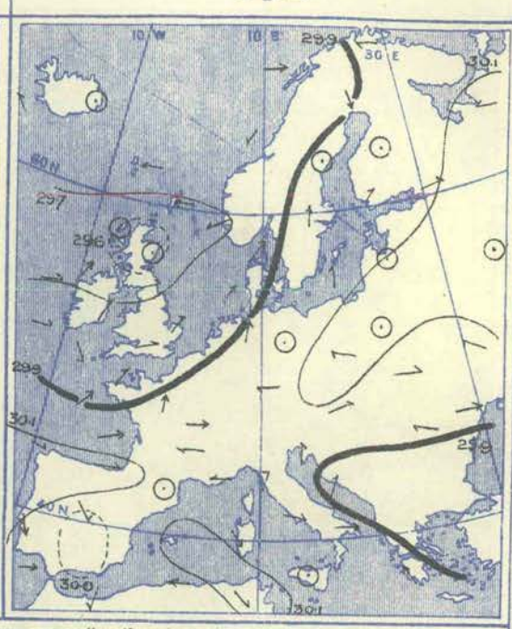
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast in most parts of these Islands, and also over most of the northern half of the Continent, with rain in places over a wide area. Fair to very fine over the Mediterranean and its neighbourhood, as well as in the south and far north of Russia. More than an inch of rain later on the coast of Kent and also at the Helder, and more than two inches at Cape Gris Nez and Dunkirk. Rain experienced over these Islands generally, as well as in the north of France and in various localities in Scandinavia.

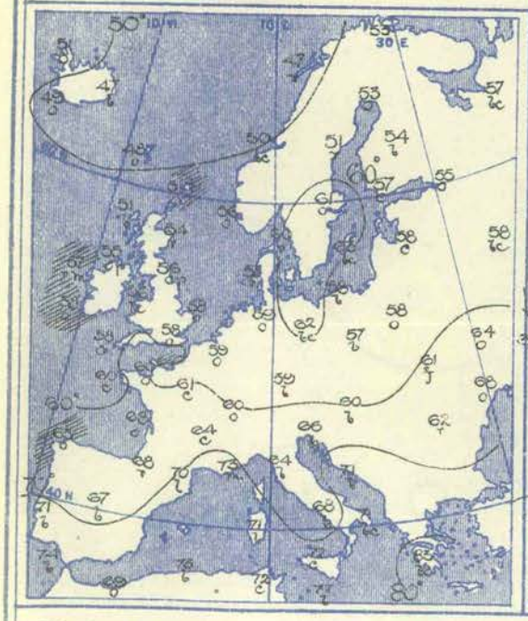
Temperature risen over the United Kingdom and its vicinity. Readings in morning 60°, or rather higher, over most of England, but below 55° in the north of Scotland. Below 60° over a very large portion of the Continent, but above it in the north of Sweden; between 70° and 80° over the south of our area. Rising to 71° later at Clacton-on Sea, and to nearly 70° at a few other of our south-eastern stations, but remaining below 60° in the extreme north. Maxima above 90° at several stations in the south of Europe and in Algeria, above 80° over the Mediterranean region generally, and above 70° at many places in Germany.

Wind in morning cyclonic very generally, the chief circulation being over the United Kingdom and the regions immediately surrounding. Scarcely any station reporting a greater strength than a moderate breeze in any part of our area. No change of importance later in day; veering somewhat over the north of England.

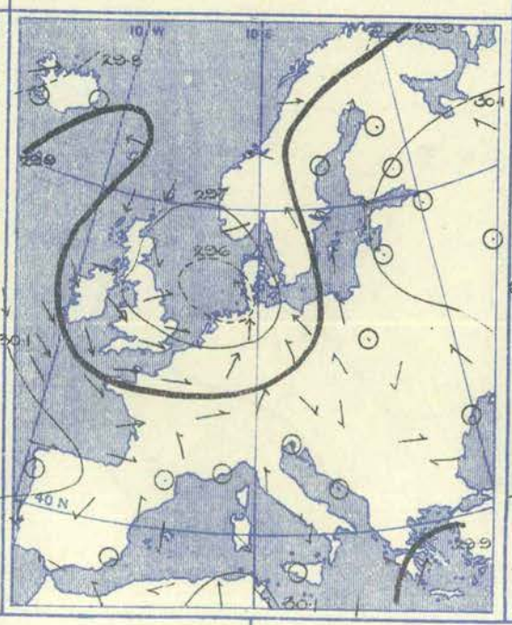
Barometer in morning relatively high in an irregularly shaped zone extending from the Spanish Peninsula to the north of Russia. Below 29·6 ins. in a depression over Scotland and the adjacent part of the Atlantic, and below 29·9 ins. in the south-east of Europe. Secondary disturbances developing over England and the Channel during day, but little modification taking place in the general disposition of pressure. Barometer rising again in Iceland and the north-west of these Islands.

Wednesday, 25th August, 1909.

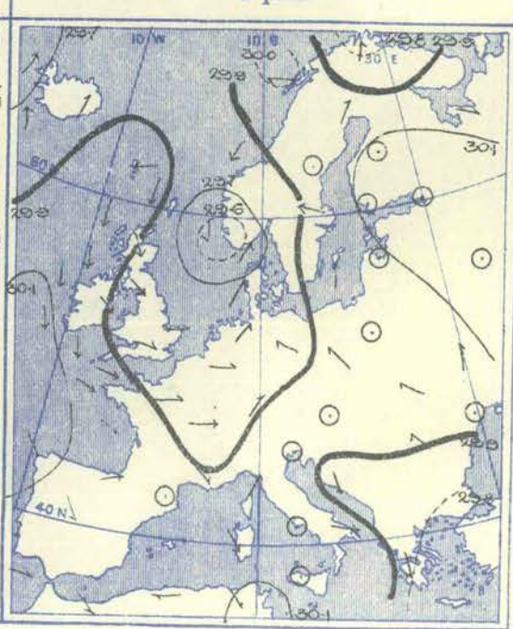
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast in nearly all parts of this country and the nearer regions of the Continent, and also in some other districts. Rainy at several of our own stations and in parts of France, Denmark, and Scandinavia. Fair to fine and bright over the greater part of southern and eastern Europe. Thunderstorms later over a large portion of England and the adjacent part of the Continent, and more or less rain in places over a large area, both in this country and on the Continent.

Temperature fallen somewhat in most places. Readings in morning ranging from about 80° in Greece, and above 70° over the Mediterranean generally, to below 60° at most places over the northern half of Europe, and to below 50° in a few localities. Rising later to 74° at Lowestoft, and to about 70° at some other stations in England, but remaining below 60° in Scotland. Maxima above 70° in many central regions, and above 80° in the south of our area. Thermometer touching 95° at Athens and 97° at Madrid.

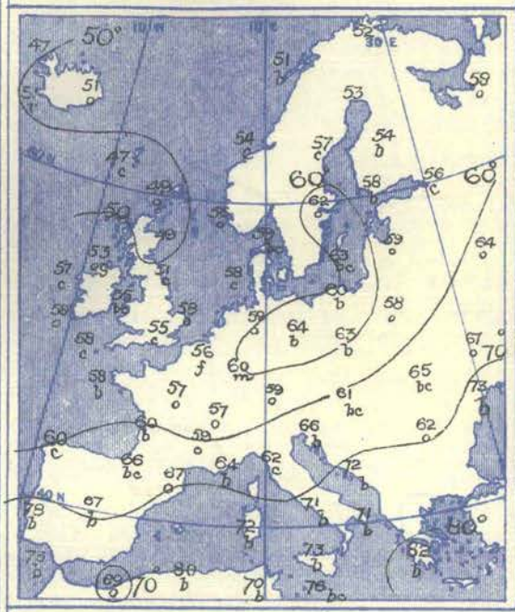
Wind in morning showing a cyclonic circulation of little strength over the North Sea region and these Islands. Light anticyclonic airs prevailing over Russia, and light cyclonic breezes over the Mediterranean. Veering to North or North-West by evening over the greater part of the United Kingdom, and also on the south-west coast of Norway; increasing to a high wind from South-West in the Skager Rack. Little change elsewhere.

Barometer in morning above 30·1 ins. over Russia and also in the north-west of the Spanish Peninsula; below 29·6 ins. in a large but not deep depression centred over the North Sea. Relatively low both in the extreme north-west and south-east of our area. Barometer falling in Iceland during day, but rising steadily in the west and south-west of this country and over the nearer regions of the Atlantic. North Sea depression taking up a position further to the north. Some ill-defined secondaries travelling over the eastern districts of England.

Thursday, 26th August, 1909.

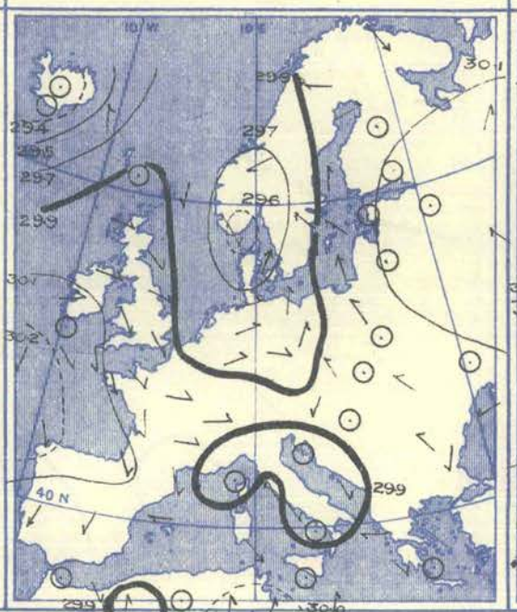
Temperature and Weather.

7 a.m.

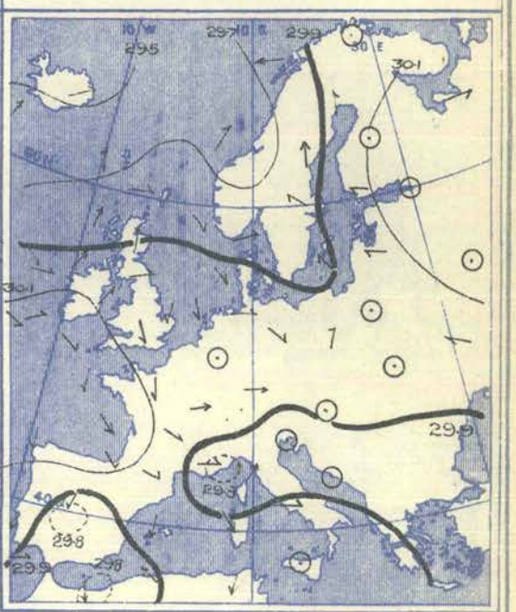


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to very fine and bright over the south of Russia and the Mediterranean region, as well as in a few localities elsewhere, but very cloudy or overcast at most stations over the northern half of our area, and rainy at Karlstad and Ulcaborg. A little rain later in the north-west and west of these Islands. Some rain also in the north and north-east of France and Switzerland and northern Italy. More than an inch at Lugano.

Temperature fallen over these Islands and their neighbourhood, risen in Scandinavia and Russia. Morning readings below 50° at some stations in Scotland and Ireland, and below 55° at some places in England. Above 60° over the greater part of the Continent, and between 70° and 80° over a considerable portion of the Mediterranean. Maxima during day not much above 60° in this country and northern France, but above 80° very generally in the south of our area, and about 90° in places; highest reading 95° at Madrid.

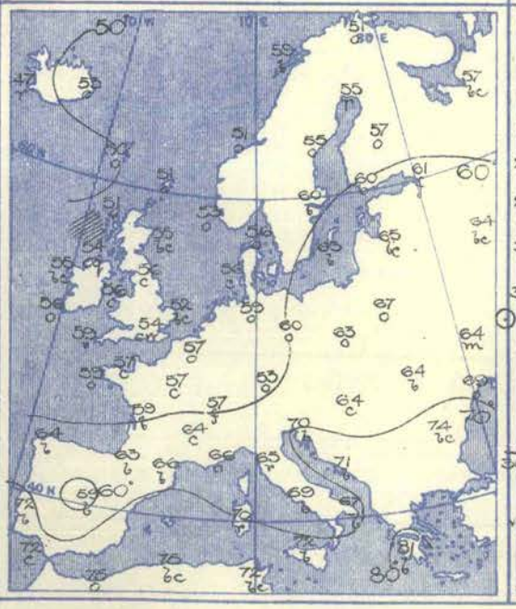
Wind in morning showing a feebie cyclonic movement over Scandinavia and its vicinity. A light to moderate or fresh North-Westerly breeze prevailing over these Islands and the north of France, and light variable winds over southern Europe. Backing later in the west and north of this country, but little change over our area as a whole.

Barometer in morning above 30·1 ins. over Russia, and also over the Bay of Biscay and the western half of Ireland. Below 29·6 ins. in a depression over the south-west of Norway, and below 29·4 ins. in another system extending over Iceland from the westward. Some shallow secondaries shown over Germany and the Low Countries. Pressure increasing during day in Iceland, but decreasing in the west and north of these Islands. Barometer rising slowly over France and the south of England.

Friday, 27th August, 1909.

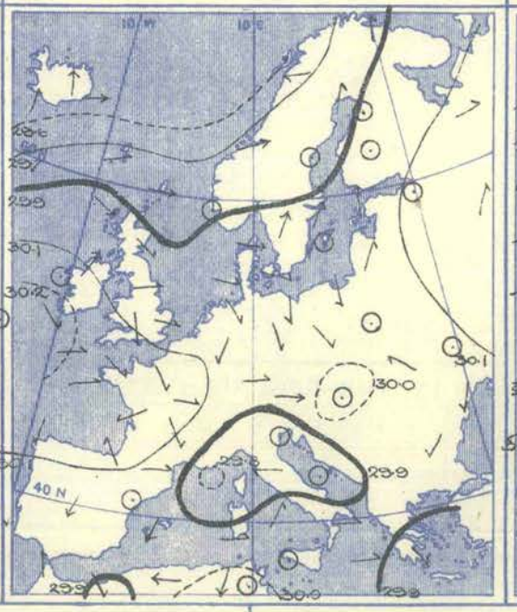
Temperature and Weather.

7 a.m.

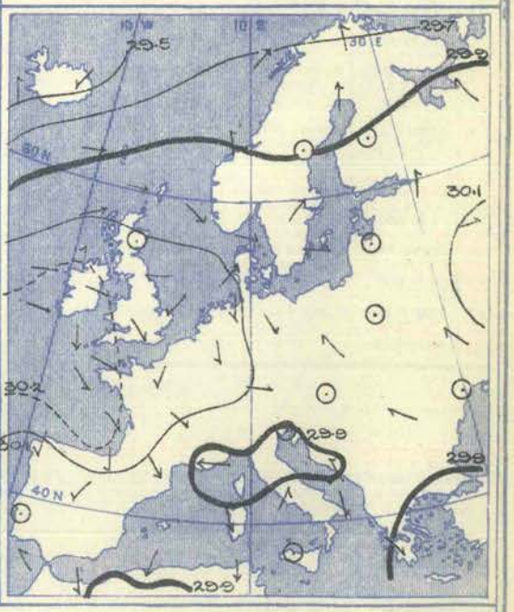


Barometer and Wind.

7 a.m.



6 p.m.



Weather in morning fair to cloudy or overcast over these Islands generally, but rain falling at Scilly, Nottingham, and in the Hebrides. Very fine over the greater portion of the Mediterranean region, but rainy at Cagliari and Florence. Unsettled, with rain in places, over Scandinavia. Slight rain later in the extreme north of these Islands, and heavier amounts in the south-east of France, Italy, Hungary, the Baltic Provinces of Russia, and in various parts of Germany.

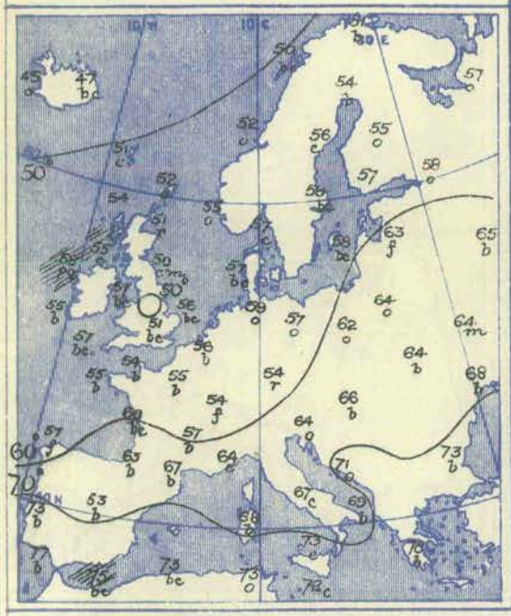
Temperature changed rather irregularly. Morning readings below 55° over most of this country, above 60° over a large portion of the Continent, and above 70° at most stations in the far south of our area. Thermometer rising to about 90° at a few stations in the far south during day, to about 80° in the southern regions generally, and to 75° at Lowestoft. Maxima below 70° over this country as a whole, and below 65° in many places.

Wind in morning light or moderate between North-West and South-West over the United Kingdom and Scandinavia. Variable breezes prevailing over the Mediterranean; strong in places, and a high wind from North-East blowing at Palma. Tending to become anticyclonic over these Islands and their neighbourhood during day. No great change as a whole, but increasing in force from the Northward on the coast of Algeria.

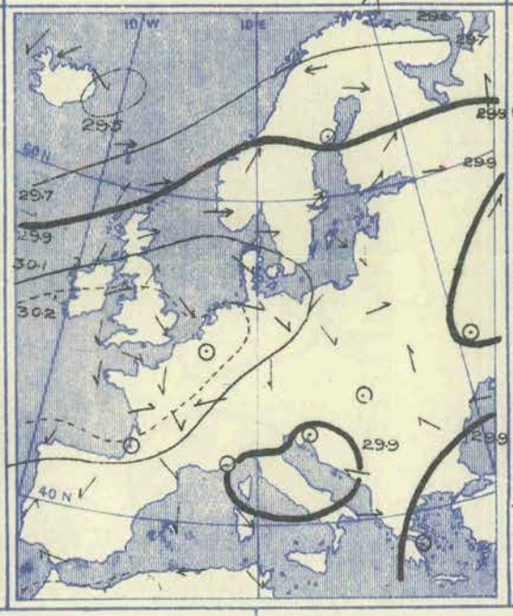
Barometer in morning 30·2 ins. over the Bay of Biscay and the adjacent portion of the ocean, and also in the south of Russia. Below 29·8 ins. in a large but shallow depression having its minimum off the south of France, and below 29·6 ins. in a large disturbance in the far north of our area. A secondary system shown in the south-west of England and also over the North Sea. Rising during day in these Islands and the nearer regions of the Continent, falling in Iceland.

Saturday, 28th August, 1909.

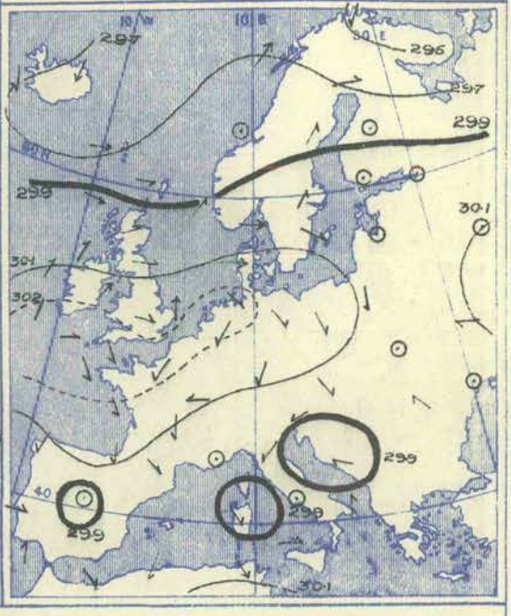
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and rainy in the extreme north and north-west of these Islands, and overcast in a few other localities, but fair to very fine and bright over our area as a whole. Heavy rain later in the north of Ireland, and considerable falls in the north of Great Britain. More than an inch on the shores of the Adriatic, and various amounts in southern Italy and central Europe.

Temperature fallen in most regions. Readings in morning as low as 46° at Nottingham and only slightly above 50° over a large portion of England and Scotland; below 60° over a large part of the Continent, but above 70° at most stations in the far south. Thermometer rising to about 70° during day at some places in the south of England, the north of France, and the adjacent parts of the Continent, to between 75° and 80° or above over the southern countries, and to nearly 90° at a few stations. Highest reading 95° at Madrid.

Wind in morning mainly South-Westerly in the west and north of these Islands and over Scandinavia, fresh in places; North-Easterly breezes in Iceland. Light anticyclonic circulations shown over England and the adjacent parts of the Continent, and in Russia, and a feeble cyclonic movement over Italy and the Adriatic. No general change later in day, but wind returning to the Southward in the south-east of England, and showing a strong backing tendency over these Islands as a whole.

Barometer in morning ranging from above 30·2 ins. in France and the south of this country and above 30·1 ins. in Russia to below 29·9 ins. in a depression in the south of our area, and to below 29·5 ins. in a well-marked system over the Icelandic region. Northern depression moving eastwards later and a recovery of pressure taking place in Iceland. Some shallow secondaries appearing in these Islands, and a fall of the barometer setting in in France also.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
	1909.										Metres.	
1	August 23rd, 10.18 a.m. to 11.22 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282·5° 95% 170°, 7	281·5° 90% 168°, 11	280° 90% 168°, 12	278° 95% 190°, 17				278° 94% 208°, 18 } 1,450	Dull and wet. Fresh breeze. Clouds, Ni. 10.
2	August 24th, 12.56 p.m. to 3.3 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 90% 225°, 5	286° 92% 230°, 9	285° 93% 232°, 14	280° 95% 245°, 14	278° 85% 250°, 14	277° 65% 256°, 14		276·5° 62% 258°, 15 } 2,150	Overcast and dull. Gentle breeze. Clouds, Ni. and Cu.-Ni. 10. Up to 1,200 m, the temp. fell quickly, afterwards very slow. Also fairly dry above this height.
3	August 25th, 7.0 a.m. to 8.45 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284·5° 97% 306°, 4	283° 96% 302°, 7	282° 96% 298°, 8	280° 95% 295°, 12				279° 95% 295°, 13 } 1,210	Dull and wet. Gentle breeze. Clouds, Ni. 10, very low.
4	August 26th, 3.51 p.m. to 5.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 78% 300°,—	283° 80% 285°,—	282° 81% 280°,—	277° 89% 257°,—				274·5° 97% 265°,— } 1,370	Fine, but overcast. Gentle breeze. Clouds, Cu. 9.
5	August 27th, 2.40 p.m. to 4.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind ..	284° 83% 312°, 4	283° 85% 300°, 10	282° 87% 295°, 12	279° 96% 294°, 12				277° 93% 300°, 13 } 1,800	Fine, but dull. Gentle breeze. Clouds, Cu. 9.
6	August 28th, Noon to 12.55 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	288° 74% 236°, 4	287° 75% 236°, 10	286° 76% 236°, 11	280° 80% 233°, 11				278° 92% 230°, 12 } 1,160	Fine. Gentle breeze. Clouds, Cu. 8 to 4.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6
No. of Kites or Balloons	1	1	1	1	2	2
Area of Surface (sq. metres) ..	7·5	7·5	7·5	7·5	15	15
Capacity of Balloon (cub. metres)	—	—	—	—	—	—
Length of Wire (metres)	2,100	3,500	1,700	2,000	1,800	1,500

Additional Ascents from the Howard Estate Observatory, Glossop.

Date 1909.	Time.	Maximum height. Metres.	Apparatus used.	Date 1909.	Time.	Maximum height. Metres.	Apparatus used.
August 23rd.	11.55 a.m. to 12.20 p.m.	850	Kite.	August 27th.	9.21 a.m. to 10.26 a.m.	1,250	Kite.
„ „	3.58 p.m. to 4.45 p.m.	1,250	„	„ „	11.45 a.m. to 12.38 p.m.	1,200	„
August 24th.	4.35 p.m. to 6. 0 p.m.	1,300	„	„ „	1.15 p.m. to 1.50 p.m.	900	„
August 25th.	8.32 p.m. to 9.13 p.m.	1,140	„	„ „	5. 5 p.m. to 6.10 p.m.	1,150	„
„ „	11.27 a.m. ——	about 1,800	Kite broke away.	August 28th.	1.27 p.m. to 3.15 p.m.	2,150	„
August 26th.	5.25 p.m. to 6.53 p.m.	1,280	Kite.				

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* } No. 35. THIRTY-FIFTH WEEK, SUNDAY AUGUST 29TH TO SATURDAY SEPTEMBER 4TH, 1909. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—General Remarks.

Weather.—Over the Kingdom generally the conditions were changeable and showery, but the rain was not heavy. In the south-eastern quarter of England the greater part of the period was fair and dry. A thunderstorm was experienced at Margate during the afternoon of September 1st.

Temperature was below the average, the deficit ranging from 1°·3 in Ireland S. to more than 4° in Scotland E., England E., and the Midland Counties, and to 5°·2 in England S.E. The highest of the maxima, which were generally recorded either on August 29th or September 3rd, varied from 72° in the Midland Counties and the English Channel to 64° in Ireland N. and Scotland E., and to 63° in Scotland N. The lowest of the minima occurred on September 2nd at the great majority of the stations. In Scotland E. (at West Linton on September 2nd) the thermometer fell to 28°, in Scotland N. to 31°, in Scotland W. to 32°, in England N.W. to 33°, in Ireland S. to 40°, and in the English Channel to 44°. The lowest grass temperatures reported were 25° at Birmingham, 26° at Cambridge, 27° at West Linton, 28° at Balmoral and Hereford, and at several other stations they were a little below 32°.

Mean Temperature of the Sea.—On the coasts of these Islands generally the water was rather warmer than during the same period of last year, as much as 3° to 4° on the south-west coast of Ireland. The actual means for the week ranged from 62°·0 at Eastbourne and the Shipwash Lightship, and 60°·8 at Newquay, to about 53° at several places on the north-east coast of Britain, and to 51°·5 at Lerwick.

Rainfall, although frequent in most places, was less than the normal in all districts, the deficit being considerable over the Kingdom generally.

Bright Sunshine was less than the average over the major portion of the country, but the deficiency was not large in any part of Britain. In Scotland N. and E., and in England E. and S.E., there was a slight excess. The percentage of the possible duration ranged from 51 in England S.E., 48 in the English Channel, and 41 in England E. to 30 in Scotland W., 27 in England N.W., 22 in Ireland S., and 12 in Ireland N.

Barometer and Wind.—At the commencement of the week a secondary depression passed over these Islands to the North Sea, and in its rear a high pressure system on the Atlantic extended over our western and south-western districts. The wind consequently veered to the North-Westward, and the general conditions underwent little modification, apart from the passage of some ill-defined and shallow disturbances, until towards the end of the period, when the anticyclone moved further southwards and extended eastwards to central Europe. On Saturday further secondary depressions passed across England, and the wind, which had returned to West, blew freshly or strongly on our western, south-western, and southern coasts, and reached the force of a high wind in several places.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 284.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Very deficient	Very deficient	Deficient	Very deficient	Very deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Moderate	Deficient
	Rainfall ...	Moderate	Moderate	Light	Moderate	Moderate	Light	Light	Moderate	Light	Moderate	Light	Light
	Sunshine ...	Abundant	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Scanty	Scanty	Very scanty	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 13 weeks from June 6th, 1909.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

PAST SEASONS.

SUMMER, 1908. May 31st–Aug. 29th. 13 weeks.	Warmth ...	4 * 4	4 * 6	4 * 4	1 * 3	5 * 4	2 * 4	3 * 3	2 * 4	3 * 3	2 * 3	3 * 3	3 * 3
	Rainfall ...	2 * 7	3 * 6	2 * 8	3 * 6	4 * 7	3 * 7	4 * 5	5 * 5	3 * 8	5 * 8	2 * 6	2 * 6
	Sunshine ...	4 * 3	6 * 4	5 * 4	5 * 4	7 * 4	6 * 2	5 * 3	7 * 3	7 * 3	4 * 3	5 * 4	5 * 4
AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5

8095 450 Wy. & S. Ltd. 9—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-FIFTH WEEK—August 29th to September 4th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	63	31	56·3	44·2	50·0	- 3·7	56	- 26	0	0	6	+ 1	0·89	- 0·22	31	+ 6	31	+ 6
Eastern																		
1. SCOTLAND, EAST	64	28	58·6	43·2	50·5	- 4·3	60	- 30	0	0	5	0	0·53	- 0·18	33	+ 1	34	+ 2
2. ENGLAND, N.E.	71	36	61·8	46·7	53·9	- 2·8	83	- 20	0	0	4	0	0 37	- 0·27	33	0	34	0
3. ENGLAND, EAST	71	35	61·9	46·6	53·9	- 4·6	83	- 32	0	0	5	+ 1	0·37	- 0·17	40	+ 1	41	+ 1
4. MIDLAND COUNTIES	72	35	61·7	45·1	53·0	- 4·4	77	- 30	0	0	5	+ 1	0·51	- 0·13	33	- 1	35	- 1
5. ENGLAND, S.E.	70	34	62·5	47·0	54·4	- 5·2	87	- 36	0	0	3	- 1	0·34	- 0·32	48	+ 9	51	+ 9
Western																		
6. SCOTLAND, WEST	67	32	59·3	46·0	52·3	- 3·2	72	- 22	0	0	5	0	0·70	- 0·44	29	- 2	30	- 2
7. ENGLAND, N.W.	66	33	59·6	48·4	53·7	- 3·3	82	- 23	0	0	6	+ 1	0·80	- 0·09	25	- 6	27	- 6
8. ENGLAND, S.W.	69	36	61·2	48·6	54·6	- 3·5	88	- 25	0	0	4	0	0·52	- 0·37	31	- 7	33	- 7
9. IRELAND, NORTH	64	36	58·9	47·9	53·2	- 2·4	78	- 18	0	0	6	+ 1	0·78	- 0·17	12	- 16	12	-16
10. IRELAND, SOUTH	67	40	61·4	50·6	55·8	- 1·3	97	- 9	0	0	4	0	0·53	- 0·36	21	- 11	22	-11
11. ENGLISH CHANNEL	72	44	64·0	53·0	58·0	- 2·7	112	- 19	0	0	3	- 2	0·13	- 0·53	45	- 1	48	- 1

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 13 Weeks, June 6th to September 4th, 1909.

0. SCOTLAND, NORTH	72	31	*	*	*	*	999	-107	0	- 2	61	+ 5	9·13	-1·44	384	- 6	25	0
Eastern																		
1. SCOTLAND, EAST	80	28	*	*	*	*	1117	-122	0	- 1	50	+ 1	7·20	-1·11	475	- 9	32	- 1
2. ENGLAND, N.E...	85	33	*	*	*	*	1325	- 73	0	0	48	+ 5	8·65	+1·67	458	- 75	32	- 5
3. ENGLAND, EAST	85	35	*	*	*	*	1428	-141	0	0	48	+ 7	7·15	+0·56	535	- 57	38	- 4
4. MIDLAND COUNTIES.. ..	86	33	*	*	*	*	1375	-142	0	0	47	+ 6	8·19	+1·14	483	- 49	34	- 4
5. ENGLAND, S.E.	86	34	*	*	*	*	1479	-173	0	0	42	+ 3	7·47	+0·97	565	- 48	40	- 3
Western																		
6. SCOTLAND, WEST	78	32	*	*	*	*	1194	-117	0	0	51	0	11·48	+0·45	522	+ 13	36	+ 1
7. ENGLAND, N.W...	82	32	*	*	*	*	1284	-159	0	0	52	+ 5	9·64	+0·72	481	- 45	33	- 3
8. ENGLAND, SW.	89	30	*	*	*	*	1427	-100	0	0	46	+ 1	7·83	-0·74	586	+ 5	42	0
9. IRELAND, NORTH	78	33	*	*	*	*	1245	- 82	0	0	56	- 1	7·72	-2·18	389	- 41	27	- 3
10. IRELAND, SOUTH	81	36	*	*	*	*	1418	- 49	0	0	45	- 4	5·54	-4·12	465	- 21	33	- 2
11. ENGLISH CHANNEL	84	42	*	*	*	*	1598	- 69	0	0	33	-13	3·81	-2 95	723	+ 10	52	+ 1

THE YEAR.—Aggregates, &c., for the Period of 35 Weeks, January 3rd to September 4th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1428	-126	535	- 22	161	+ 4	25·56	-5·85	881	- 3	27	0
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	1595	-175	673	+ 53	137	+ 4	21·46	+1·89	1019	- 33	31	- 1
2. ENGLAND, N.E.	85	14	*	*	*	*	1923	- 27	580	+105	122	+ 2	18·00	+2·54	1115	- 19	34	- 1
3. ENGLAND, EAST	85	12	*	*	*	*	2097	-163	554	+ 33	123	+ 7	15·28	+0·37	1299	+ 72	40	+ 2
4. MIDLAND COUNTIES.. ..	86	8	*	*	*	*	2095	-141	642	+109	115	0	17·00	+0·24	1169	+ 70	36	+ 2
5. ENGLAND, S.E...	86	0	*	*	*	*	2181	-238	482	+101	113	+ 3	17·37	+1·26	1382	+139	43	+ 4
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	1781	-122	445	+ 20	134	- 6	29·00	+0·15	1127	+ 46	34	+ 2
7. ENGLAND, N.W.	82	10	*	*	*	*	1921	-146	466	+ 80	129	+ 1	21·57	+0·86	1201	+104	37	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2112	-180	390	+ 89	124	- 1	20·34	-2·21	1532	+114	41	+ 4
9 IRELAND, NORTH	78	14	*	*	*	*	1917	- 70	315	- 30	155	+ 3	21·75	-2·11	964	- 27	30	- 1
10. IRELAND, SOUTH	81	15	*	*	*	*	2243	- 43	265	+ 6	139	+ 4	21·03	-4·15	1125	+ 17	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	2560	- 26	151	+ 42	111	-22	15·87	-2·81	1587	+111	50	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked Ⓜ is supplied by the Royal Meteorological Society, and that for Stations marked Ⓢ is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.				
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	NAMES OF STATIONS.
		°		°		°	°	°	—	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*56*	*29th, 3rd*	*44*	*29, 30, 31st*	*54·3*	*45·1*	*49·5*	—	*53*	*0*	*6*	*0·67*	—	*37·3*	—	*32*	—	*Balta Sound.*
	a Sumburgh Head ..	56	29th	40	30th	53·7	44·7	49·0	- 2·7	49	0	7	0·52	- 0·20	25·1	- 1·2	25	- 1	Deernes-.
	a Stornoway	58	2nd	42	2nd	55·9	45·7	50·6	- 2·7	60	0	6	0·50	- 0·47	44·4	+15·6	45	+16	Stornoway.
	a Castlebay, Barra Isd.	*58*	*3rd*	*46*	*2nd*	*56·1*	*48·7*	*52·2*	- *3·3*	*71*	*0*	*6*	*0·35*	—	*37·6*	—	*38*	—	*Castlebay.*
	a Wick	60	29th	38	2nd	56·4	43·3	49·5	- 4·0	53	0	7	0·78	+ 0·15	*	*	*	*	* *
	p Strathpeffer.. ..	63	29th	39	2nd	58·1	44·6	51·0	- 3·0	63	0	4	0·46	- 0·13	28·9	+ 1·7	29	+ 2	Strathpeffer.
	p Glencarron .. S	56	29th, 1st	39	2nd	54·7	43·8	49·0	- 3·7	49	0	7	2·40	+ 0·62	*	*	*	*	* *
	p Fort Augustus S	61	29th	31	2nd	57·5	43·2	50·0	- 4·7	56	0	3	0·49	- 0·36	24·3	+ 4·0	25	+ 4	Fort Augustus.
	p Fort William S	61	1st	33	2nd	58·0	44·2	50·8	- 4·1	62	0	7	1·05	- 0·45	*	*	*	*	* *
1. SCOTLAND, E. .. .. — b, Mainland.	*p* Gordon Castle S	60	2nd	38	2nd	56·8	42·9	49·5	- 5·6	53	0	6	0·99	+ 0·33	*22·9*	—	*23*	—	*Gordon Castle.*
	a Nairn	63	3rd	35	2nd	58·6	43·0	50·4	- 4·4	59	0	6	0·42	- 0·12	31·2	—	32	—	Nairn.
	a Aberdeen	64	2nd	40	2nd	58·3	44·6	51·1	- 4·0	64	0	5	0·69	+ 0·08	35·1	+ 2·8	36	+ 3	Aberdeen.
	a Balmoral	64	2nd	32	2nd	60·1	38·3	48·7	- 3·0	62	10	4	0·52	- 0·24	26·9	—	27	—	Crathes S.
	p Crieff .. .. S	63	29th, 2nd	36	2nd	61·4	43·5	52·0	- 3·6	70	0	2	0·07	- 0·81	41·6	—	42	—	Balruddery
	a Leith	63	3rd	40	2nd	60·1	47·1	53·3	- 3·6	79	0	3	0·38	- 0·18	33·3	+ 3·6	34	+ 4	Edinburgh.
	a West Linton.. S	58	2nd, 3rd	28	2nd	55·8	40·8	47·9	- 5·7	46	3	5	0·61	—	*29·2*	—	*30*	—	*West Linton.*
	p Marchmont .. S	61	2nd	38	2nd	57·3	45·7	51·2	- 3·0	64	0	5	0·53	- 0·19	30·4	- 0·8	31	- 1	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	65	2nd	40	2nd	60·3	48·0	53·9	- 1·5	83	0	5	0·59	- 0·06	32·2	—	33	—	Cockle Park.
	a Shields	68	3rd	40	2nd	61·4	45·3	53·0	- 3·3	77	0	4	0·36	- 0·19	*30·7*	+ *3·4*	32	+ 4	*Newcastle.*
	p Durham	64	2nd	38	2nd	60·7	46·0	53·0	- 3·7	77	0	3	0·51	- 0·01	30·4	- 0·8	31	- 1	Durham.
	p Rounton .. M	69	3rd	37	2nd	61·2	45·2	52·8	- 3·0	76	0	4	0·49	- 0·03	*	*	*	*	* *
	p Scarborough.. M	71	3rd	45	2nd	64·1	49·6	56·5	- 0·6	102	0	3	0·33	- 0·22	32·6	—	34	—	Scarborough.
	p York	68	29th	43	1st	62·0	47·4	54·4	- 3·2	87	0	5	0·38	- 0·15	31·7	+ 0·1	33	0	York.
— b, South.	*a* Spurn Head	71	29th, 3rd	38	2nd	62·6	48·1	55·0	- 3·4	91	0	6	0·26	- 0·16	*	*	*	*	* *
	a Lincoln	69	29th	37	2nd	62·1	45·5	53·4	- 5·0	80	0	5	0·16	- 0·34	37·8	—	39	—	Skegness.
	a Fulbeck	67	29th	36	2nd	61·6	45·3	53·1	- 5·2	78	0	3	0·22	- 0·28	33·6	—	35	—	Rauceby.
															45·2	—	*47*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	68	29th	44	3rd	60·2	48·3	54·0	- 4·2	84	0	6	0·24	—	31·8	—	33	—	Cromer.
	p Hillington .. M	67	29th	35	2nd	60·5	43·4	51·5	- 6·8	67	0	? 7	? 0·34	- 0·26	?30·0	- 7·4	? 31	- 8	Hillington.
	a Yarmouth	71	29th	43	1st	62·0	47·6	54·5	- 4·3	88	0	5	0·22	- 0·29	42·2	—	44	—	Yarmouth.
	a Norwich	68	29th	41	2nd	61·4	47·5	54·1	- 4·6	85	0	6	0·42	—	*	*	*	*	* *
	p Geldeston	71	29th	39	2nd	62·9	45·6	53·8	- 4·6	83	0	6	0·47	- 0·02	39·0	- 1·6	41	- 2	Geldeston.
	p Cambridge	68	29th	35	2nd	62·7	44·1	53·0	- 6·6	77	0	4	0·27	- 0·22	43·5	+ 3·8	45	+ 4	Cambridge.
— b, South.	*a Felixstowe*	*59*	*29th*	*41*	*2nd*	*64·9*	*48·7*	*56·4*	- *3·2*	*101*	*0*	*6*	*0·36*	—	*53·7*	—	*56*	—	*Felixstowe.*
	a Clacton-on-Sea ..	70	29th	41	2nd	63·0	48·6	55·5	- 4·2	95	0	4	0·52	—	49·1	—	51	—	Clacton.
	a Rothamsted ..	66	29th	37	2nd	60·8	45·4	52·7	- 5·1	75	0	3	0·37	- 0·19	36·5	- 2·7	38	- 3	Rothamsted.
	a Shoeburyness ..	*70*	*29th*	*41*	*2nd*	*63·6*	*50·1*	*56·5*	- *4·2*	*102*	*0*	*3*	*0·34*	- *0·06*	*49·3*	—	*52*	—	*Southend.*
	p Tottenham	69	29th	41	2nd	63·5	49·0	55·9	- 3·7	97	0	3	0·45	—	45·6	—	48	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	67	3rd	39	2nd	60·3	46·0	52·8	- 3·1	76	0	7	0·49	- 0·09	34·5	—	36	—	Harrogate.
	a Bawtry	72	29th	43	1st	63·4	46·6	54·6	- 3·0	88	0	5	0·26	- 0·23	29·0	- 2·0	30	- 2	Worksop.
	p Buxton .. M	67	*29th*	*35*	*2nd*	*58·1*	*43·5*	*50·5*	- *4·4*	*60*	*0*	*6*	*0·33*	- *0·14*	*32·1*	—	*33*	—	*Buxton.*
	a Nottingham ..	67	29th	37	2nd, 3rd	61·1	44·3	52·3	- 5·5	72	0	4	0·47	- 0·05	31·4	—	33	—	Nottingham.
	p Birmingham, Edgbsn	64	29th	42	2nd	59·6	46·8	52·9	- 5·1	76	0	5	0·54	- 0·03	21·7	—	23	—	Birmingham.
	a Raunds .. M	68	2nd	35	2nd	63·1	43·4	52·8	- 5·3	76	0	4	0·29	—	*	*	*	*	* *
	a Oxford	64	29th, 3rd	39	2nd	61·3	46·7	53·7	- 5·1	82	0	3	0·38	- 0·10	36·3	- 2·5	38	- 3	Oxford.
— b, West.	*a* Cheadle .. M	67	29th	40	2nd	60·6	44·0	51·9	- 4·0	69	0	6	0·98	+ 0·26	35·9	—	37	—	Sheffield.
	p Shrewsbury	69	29th	35	2nd	63·1	46·6	54·5	- 3·4	88	0	7	0·52	—	*	*	*	*	* *
	p Hereford .. M	66	29th	35	2nd	63·4	43·6	53·0	- 5·1	77	0	3	0·34	- 0·19	*	*	*	*	* *
	a Cirencester	64	2nd	36	3rd	60·6	43·8	51·8	- 5·2	69	0	3	0·69	+ 0·05	32·2	- 5·6	34	- 6	Cirencester.
	a Bath	66	3rd	37	3rd	62·4	44·1	52·8	- 5·9	76	0	5	0·67	+ 0·07	44·5	—	47	—	Bath.
															52·5	—	*55*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	*p* Kew	67	29th	40	2nd	62·3	47·5	54·5	- 4·7	88	0	3	0·36	- 0·16	43·2	+ 4·0	46	+ 4	Kew.
	a Marlborough ..	64	29th	34	3rd	61·2	42·1	51·2	- 5·5	64	0	3	0·54	- 0·05	34·5	- 2·7	36	- 3	Marlborough.
	a Margate	70	29th	48	1st	63·3	50·3	56·5	- 3·9	102	0	3	0·42	- 0·03	45·5	+ 5·7	48	+ 6	Margate.
	a Wisley, Surrey ..	67	29th	37	2nd	61·9	46·3	53·7	- 6·3	82	0	3	0·13	—	46·1	—	49	—	Wisley.
	a Swarraton .. M	67	3rd	34	2nd, 3rd	61·7	42·7	51·7	- 6·1	68	0	3	0·22	- 0·38	58·9	—	62	—	Worthing.
	a Tunbridge Wells M	68	29th	37	2nd	62·1	45·5	53·4	- 5·3	80	0	2	0·27	- 0·26	48·2	+ 6·8	51	+ 7	Tunbridge Wells.
	a Dungeness	67	29th	39	2nd	63·1	48·1	55·2	- 4·9	92	0	2	0·37	- 0·09	52·0	—	55	—	Littlestone.
	p Hastings	67	29th	42	1st	63·0	48·8	55·6	- 4·4	95	0	2	0·30	- 0·25	*53·7*	+ *9·2*	*57*	+*10*	*Hastings.*
	p Southampton ..	66	3rd	41	1st, 3rd	62·9	47·2	54·7	- 6·0	89	0	3	0·57	0·00	47·6	+ 4·1	50	+ 4	Southampton.
	a Ventnor	67	29th	46	1st	63·2	51·3	57·0	- 4·2	105	0	3	0·26	- 0·27	52·3	+ 7·4	55	+ 8	Ventnor.
															55·6	+12·2	59	+13	Eastbourne.
LONDON .. — ..	*a Westminster* ..	*68*	*29th*	*42*	*2nd*	*65·3*	*47·7*	*55·1*	- *4·9*	*92*	*0*	*3*	*0·35*	- *0·15*	*39·0*	+ *4·3*	*41*	+ *5*	*Westminster.*
	a Greenwich	*72*	*29th*	*37*	*2nd*	*64·5*	*47·4*	*55·5*	- *4·9*	*95*	*0*	*3*	*0·31*	- *0·15*	*41·7*	- *0·9*	*44*	- *1*	*Greenwich.*
6. — a, SCOTLAND. W. .. — b, ISLE OF MAN ..	*p* Laudale	63	1st	39	2nd	58·4	47·6	52·7	- 2·6	75	0	6	1·57	+ 0·07	*	*	*	*	* *
	a Poltalloch .. S	59	1st, 3rd	33	2nd	57·6	45·0	51·0	- 4·9	63	0	6	1·14	+ 0·04	*	*	*	*	* *
	p Glasgow	60	29th	39	2nd	58·4	46·4	52·1	- 2·8	71	0	4	0·43	- 0·43	27·4	0·0	28	0	Glasgow.
	p Rothesay .. S	61	2nd, 3rd	38	2nd	59·3	46·3	52·5	- 3·2	74	0	5	0·81	- 0·27	*	*	*	*	* *
	a Kilmarnock	60	3rd, 4th	34	2nd	59·4	44·4	51·5	- 3·8	67	0	4	0·52	—	*23·0*	—	*24*	—	*Kilmarnock.*
	a Colmonell	63	3rd	32	2nd	59·4	46·0	52·4	- 4·0	73	0	4	0·45	- 0·51	*	*	*	*	* *
	p Dumfries	62	4th	40	2nd	59·4	48·3	53·6	- 3·5	81	0	3	0·19	- 0·64	*26·5*	—	*27*	—	*Dumfries*
	p Cally, Gatehouse S	67	2nd	33	2nd	64·1	41·2	52·1	- 2·6	74	2	4	0·63	- 0·40	*	*	*	*	* *
	p Douglas	62	3rd	43	2nd	57·6	48·6	52·9	- 2·8	76	0	5	0·57	- 0·36	31·4	- 5·8	32	- 6	Douglas.
															27·5	—	29	—	Hoylake.
7. — a, ENGLAND, N.W.... — b, NORTH WALES ..	*p* Aspatria	62	31st	38	2nd	58·5	44·8	51·3	- 4·6	65	0	5	0·75	- 0·22	25·1	—	26	—	Aspatria.
	p Newton Rigg ..	64	3rd	33	2nd	59·5	43·9	51·3	- 3·5	65	0	5	0·74	- 0·01	25·5	- 6·5	26	- 7	Newton Rigg.
	p Stonyhurst	61	3rd	37	2nd	58·2	46·6	52·1	- 3·9	71	0	5	1·13	+ 0·05	22·3	- 10·0	23	-10	Stonyhurst.
	p Blackpool .. M	61	29th, 3rd	36	2nd	59·0	49·2	53·9	- 3·6	83	0	6	0·64	- 0·16	25·6	- 8·5	26	- 9	Blackpool.
	p M'nch'ster,Prestwich	66	29th	39	2nd	60·1	46·5	53·0	- 3·7	77	0	6	0·52	- 0·33	*19·3*	- *9·4*	*20*	- *10*	*Prestwich.*
	a Liverpool (Bidston)	63	29th	48	2nd	59·3	51·6	55·3	- 1·8	93	0	7	0·70	+ 0·04	*27·2*	—	*28*	—	*Liverpool.*
	a Hawarden Bridge ..	64	29th, 3rd	45	2nd	60·3	50·3	55·1	- 3·4	92	0	7	0·69	+ 0·09	*25·9*	- *9·9*	*27*	- *10*	*Southport.*
															29·0	—	*30*	—	*Rhyl.*
	p Llandudno .. M	64	29th, 3rd	44	2nd	60·7	50·6	55·4	- 3·2	94	0	6	0·73	+ 0·10	30·4	- 4·4	32	- 5	Llandudno.
	a Holyhead	63	3rd	48	2nd, 3rd	59·7	50·7	55·0	- 2·8	91	0	5	0·77	+ 0·08	26·0	—	27	—	Aberdovey.
	p Bettws-y-Coed ..	64	3rd	47	30th, 3rd	60·4	50·0	55·0	- 2·9	91	0	7	1·30	—	20·6	—	22	—	Bettws-y-Coed.
															28·6	—	30	—	Aberystwyth.
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	63	2nd	37	3rd	59·1	43·2	50·8	- 5·4	62	0	6	0·59	—	22·4	—	23	—	Llangammarch Wells.
	a Pembroke	61	29, 2, 3rd	49	30th, 2nd	59·6	51·1	55·2	- 2·8	92	0	3	0·39	- 0·29	25·3	-15·0	26	-16	Pembroke.
	a Cardiff	63	2nd	44	1, 2, 3rd	61·2	47·0	53·8	- 5·0	83	0	4	0·75	- 0·18	*28·9*	—	*30*	—	*Cardiff.*
															27·3	- *13·6*	*28*	- *14*	*Tenby.*
— b, ENGLAND, S.W. ..	*a* Clifton	64	3rd	44	2nd	61·3	49·2	55·0	- 4·6	91	0	3	0·65	- 0·09	*28·8*	—	*30*	—	*Clifton.*
	a Shaftesbury .. M	65	3rd	42	1st	61·8	47·0	54·0	- 3·9	84	0	4	0·44	- 0·28	*	*	*	*	* *
	a Arlington	62	2nd, 3rd	41	3rd	59·9	47·7	53·5	- 3·5	81	0	5	1·15	+ 0·03	33·3	-10·3	35	-11	Newquay.
	a Cullompton .. M	69	3rd	36	3rd	64·5	46·7	55·2	- 3·2	92	0	4	0·58	- 0·07	34·1	- 5·2	36	- 6	Cullompton.
	a Portland Bill ..	62	29, 30, 31, 2, 3	48	2nd	61·4	53·3	57·2	- 3·0	106	0	3	0·21	—	*47·2*		*50*	—	*Weymouth.*
	p Plymouth	65	29th	43	1st, 3rd	61·7	48·3	54·7	- 5·1	89	0	3	0·14	- 0·50	37·7	- 4·3	40	- 5	Plymouth.
	p Falmouth	64	29th, 3rd	50	1st, 3rd	61·4	52·4	56·7	- 2·3	103	0	4	0·25	- 0·50	37·9	- 6·9	40	- 7	Falmouth.
															47·7	+ *4·1*	*50*	+ *4*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	58	3rd	48	31st, 1st	55·6	49·9	52·6	- 3·4	74	0	7	0·65	- 0·12	*	*	*	*	* *
	a Blacksod Point ..	61	3rd	48	1st	59·1	50·9	54·8	- 1·9	90	0	5	0·75	- 0·30	*	*	*	*	* *
	p Markree Castle ..	64	3rd	46	30th, 1st	59·2	48 5	53·6	- 1·8	81	0	6	0·76	- 0·20	13·9	-13·6	14	-14	Markree Castle.
	a Birr Castle	63	30th, 2nd	42	30th	60·3	49·4	54·6	- 1·8	88	0	6	0·82	+ 0·04	*14·9*	-*16·6*	*16*	-*17*	*Birr Castle.*
— b, East.	*p* Armagh	64	2nd	43	30th	59·8	46·2	52·7	- 3·1	75	0	7	0·74	- 0·04	9·3	-19·1	10	-20	Armagh.
	a Donaghadee	64	3rd	36	2nd	59·6	42·7	50·7	- 5·8	61	0	6	0·93	+ 0·18	*	*	*	*	* *
10. IRELAND, S. — a, East.	*p* Dublin, City.. ..	63	3rd	46	30th, 1st	60·2	50·2	55·0	- 3·3	91	0	4	0·43	- 0·27	17·2	-18·2	18	-19	Phœnix Park.
	a Kilkenny	64	3rd	40	30th	60·9	49·9	55·1	- 1·7	92	0	4	0·53	- 0·21	*	*	*	*	* *
	a Waterford	65	3rd	41	1st	61·7	48·6	54·8	- 2·9	90	0	4	0·37	- 0·46	*	*	*	*	* *
— b, West.	*a* Birr Castle	63	30th, 2nd	42	30th	60·3	49·4	54·6	- 1·8	88	0	6	0·82	+ 0·04	14·9	-16·6	16	-17	Birr Castle.
	a Foynes	63	2nd	48	30th, 1st	60·7	52·3	56·3	- 1·1	100	0	5	0·85	+ 0·02	*	*	*	*	* *
	a Cahir .. .. M	65	3rd	43	30th	61·0	50·7	55·6	- 1·5	95	0	4	0·83	—	*	*	*	*	* *
	a Killarney	67	2nd	43	1st	64·2	51·0	57·3	+ 0·1	107	0	4	0·49	- 0·53	*	*	*	*	* *
	a Valencia	63	2nd	50	1st	61·4	53·1	57·1	- 0·6	106	0	4	0·31	- 0·80	23·7	- 9·2	25	-10	Valencia.
	a Roche's Point ..	65	4th	48	30th, 1st	61·9	50·6	56·0	- 2·1	98	0	5	0·16	- 0·70	28·5	—	30	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	63	29th, 4th	54	1st, 3rd	61·6	55·3	58·3	- 1·8	114	0	3	0·08	- 0·52	29·7	-17·8	31	-19	Scilly.
	a Jersey, St. Aubins ..	72	29th	44	3rd	65·0	51·1	57·7	- 4·3	110	0	3	0·18	- 0·42	52·7	+ 2·4	56	+ 3	St. Heliers.
	a Guernsey	69	29th	46	3rd	63·5	52·5	58·7	- 2·5	117	0	3	0·13	- 0·52	53·6	+ 3·4	56	+ 4	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 55·8 hrs.* (+*10·6 hrs.*), *59 %* (+*11 %*); *Bournemouth, 52·4 hrs., 55 %*; *Bognor, 53·8 hrs.. 57 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	51·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	53·7
	Crathes	1	30	55·5	55·3
	Balmoral	1	28	—	—
	West Linton	1	27	—	—
	Marchmont	1	30	53·6	—
2.	Cockle Park	0	31	52·3	53·8
	Durham	0	34	—	—
	York	—	—	57·9	57·1
	Hull	0	35	57·4	56·1
	Lincoln	—	—	57·6	57·3
	Rauceby	0	34	57·9	57·4
3.	Norwich	0	33	—	—
	Yarmouth	—	—	59·3	59·9
	Lowestoft	0	39	59·2	59·5
	Cambridge	3	26	58·3	59·3
	Clacton-on-Sea	0	36	59·2	59·9
	Southend	0	42	60·3	—
	Tottenham	0	36	—	60·1
4.	Harrogate	0	34	54·7	55·0
	Huddersfield	1	29	56·6	55·6
	Buxton	0	32	55·6	54·7
	Sheffield	1	29	56·8	55·9
	Nottingham	0	35	55·2	58·0
	Birmingham	2	25	52·9	53·4
	Oxford	0	32	—	—
	Hereford	2	28	—	—
	Cirencester	2	30	—	—
5.	Margate	0	41	58·3	58·3
	Greenwich	1	30	—	—
	Westminster	0	36	—	—
	Kew	1	29	59·1	58·7
	Canterbury	0	36	57·8	59·1
	Tunbridge Wells	0	34	59·4	—
	Wisley	0	31	59·0	59·5
	Worthing	0	36	60·4	59·9
	Portsmouth	0	36	59·2	60·6
6.	Glasgow	1	30	—	—
	Rothesay	—	—	—	54·8
	Colmonell	1	29	—	—
	Dumfries	0	37	55·6	57·0
	Douglas	0	39	—	—
7.	Aspatria	0	31	—	—
	Newton Rigg	0	31	56·5	55·9
	Burnley	1	30	54·1	54·4
	Southport	0	33	59·4	59·7
	Manchester City	1	29	56·9	58·3
	Bettws-y-Coed	0	41	54·7	54·0
8.	Llangammarch Wells	2	29	56·4	55·8
	Cardiff	0	40	57·4	58·2
	Clifton	0	39	—	—
	Bath	—	—	60·3	—
	Plymouth	0	33	63·2	—
9.	Armagh	0	38	57·9	57·4
	Markree	0	39	58·0	57·3
10.	Dublin, Trin. Coll.	0	39	57·6	57·6
11.	Guernsey, Brooklyn	0	40	61·7	61·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	52	51	51·5
	Kirkwall	57	54	54·9
	Wick	53	51	52·9
SCOTLAND, E.	Cromarty	54	53	53·2
	Pennan Bay	57	53	54·8
	Aberdeen, Cove Bay	54	52	53·2
ENGLAND, N.E.	Burnmouth, Berwick	55	52	53·2
ENGLAND, E.	Scarborough	58	54	56·2
	Shipwash Lightship	63	61	62·0
ENGLAND, S.E.	Margate‡	63	59	61·4
	Eastbourne‡	64	60	62·0
SCOTLAND, W.	Lamlash	55	54	54·4
	Ballantrae	60	57	58·7
ENGLAND, N.W.	Port Erin	58	55	56·2
ENGLAND, S.W.	Newquay	61	60	60·8
	Plymouth‡	58	57	57·3
	Salcombe	60	58	59·5
IRELAND, N.W.	Sheephaven	60	58	58·7
	Teelin	60	57	58·5
IRELAND, S.W.	Cleggan	59	56	57·5
	Seafield	63	58	60·3
IRELAND, E.				

‡ Only one observation each day.

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1909.	Station.	Wind Direction (in Degrees, E=90°, S=180°, W=270°, N=360°) and Velocity, Metres per Second. Ground Level.	500 metres.	1,000 metres	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres	4,000 metres.	4,500 metres.	5,000 metres	5,500 metres	6,000 metres	6,500 metres	7,000 metres	7,500 metres.	8,000 metres	8,500. metres	9,000 metres.	
1	Sept. 2nd, 6.8 p.m.	Pyrton Hill, Oxon. 150 m.	220°, 2	230°, 2	250°, 2	270°, 2	310°, 2	350°, 2	360°, 3	10°, 5	30°, 15	30°, 15	15°, 13	350°, 13	360°, 15		360°, 16	350°, 17	350°, 19	350°, 21	350°, 24	

NOTES.—Registering balloon. Two theodolites for 18 minutes, one for 46 minutes. Ascensional rate 3·2 m.p.s. Lost in or behind light cirrus at about 9 km.

Additional Ascents from the Howard Estate Observatory, Glossop.

Date 1909.	Time.	Maximum height. Metres.	Apparatus used.	Date 1909.	Time.	Maximum height. Metres.	Apparatus used.
August 30th.	7. 4 p.m. to 7.44 p.m.	820	Kite.	September 2nd.	3.58 p.m. to 6.16 p.m.	1,730	Two kites on one wire.
August 31st.	11.20 a.m. to 12.35 p.m.	1,230	,,	September 3rd.	9.32 p.m. to 10.40 p.m.	1,620	Kite.
,, ,,	12.48 p.m. to 2.22 p.m.	1,400	,,	September 4th.	12.13 a.m. to 2. 3 a.m.	2,200	,,
,, ,,	3. 5 p.m. to 4.25 p.m.	1,380	,,	,, ,,	7.34 a.m. to 8.50 a.m.	1,830	,,
,, ,,	4.53 p.m. to 6.15 p.m.	1,800	,,	,, ,,	9. 0 a.m. to 10. 5 a.m.	1,500	,,
September 1st.	11. 5 a.m. to 12.51 p.m.	1,700	,,	,, ,,	10.44 a.m. to 11.45 a.m.	1,700	,,
September 2nd.	7. 4 p.m. to 8.28 p.m.	1,840	Two kites on one wire.	,, ,,	3.20 p.m. to 4.20 p.m.	1,200	,,

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

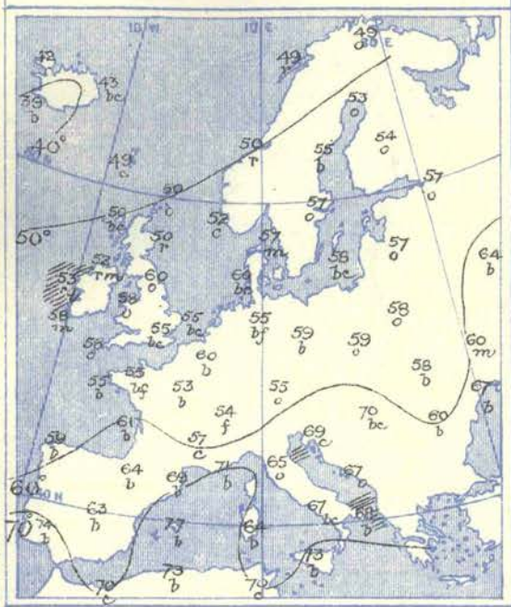
The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

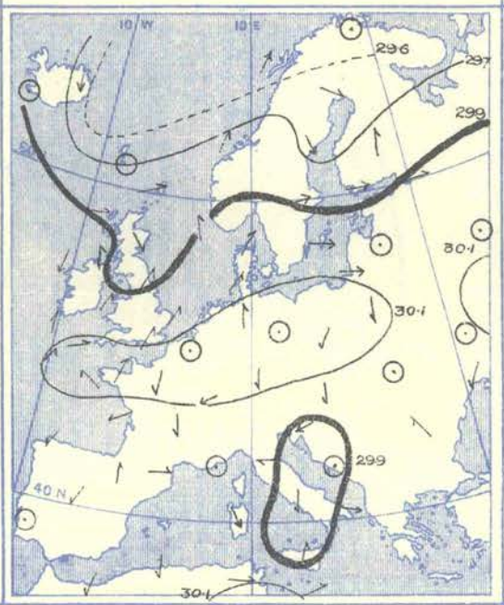
Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Sunday, 29th August, 1909.

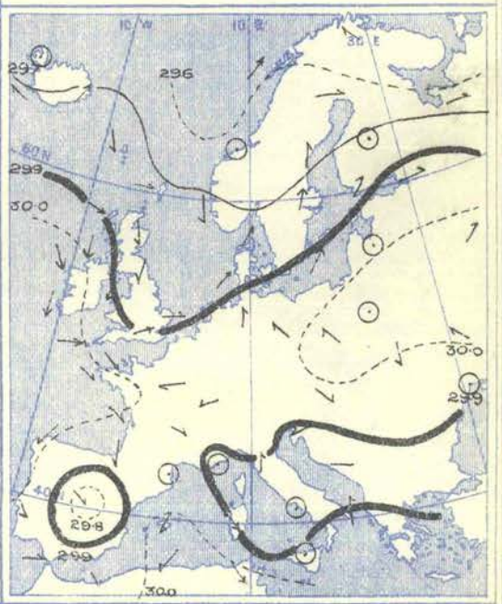
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over most of England and the greater portion of the Continent, but rainy in Ireland, Scotland, and on the west coast of Norway. Rain later in many parts of these Islands and in Scandinavia, as well as in southern Italy and Sicily; amounts not large generally, but nearly an inch at Brindisi.

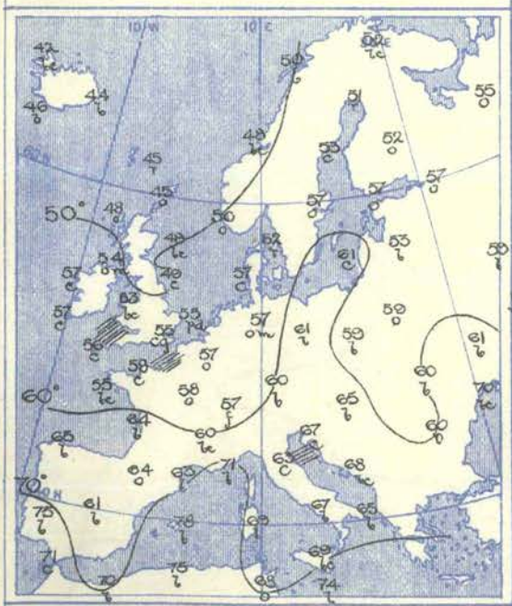
Temperature showing no general change. Readings in morning about 50° in the north of Scotland, and nearly 60° in southern England. Below 60° at almost all stations over the northern half of the Continent, but above 70° over a large portion of southern Europe and the Mediterranean. Maxima during day above 80° in the south generally, and as high as 95° at Madrid. Thermometer touching 70° at some stations in central Europe, and rising to 66° at St. Petersburg, but remaining below that value over the major portion of this country.

Wind in morning Northerly in Iceland and on the north-west coast of Ireland, South-Westerly in these Islands generally, and between West and South-West over the northern countries of the Continent; moderate as a whole, but fresh or strong in places, and blowing a gale at Seydisfjord. A separate cyclonic circulation of light to fresh winds prevailing over Italy and its vicinity. Backing to South-West later in Iceland.

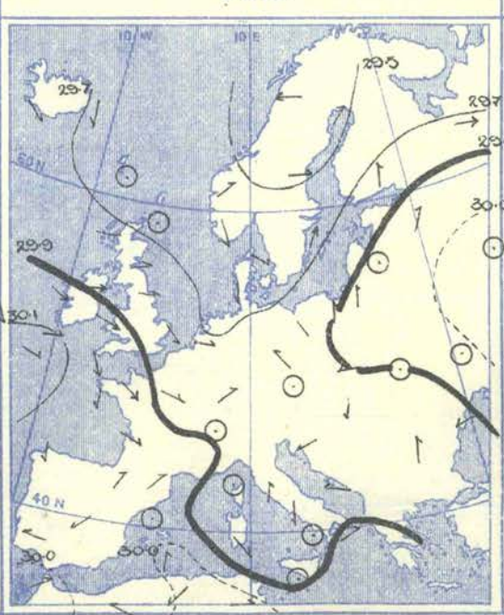
Barometer in morning above 30·1 ins. in an elongated high pressure system extending from beyond the south-west of England to Poland. Below 29·9 ins. in a shallow depression covering Italy and the Adriatic, and below 29·6 ins. in the far north of our area. Relatively low in a secondary disturbance over the north of these Islands. A secondary disturbance forming over England during day, and a fresh fall of the barometer setting in over Iceland. Pressure giving way briskly over central Europe.

Monday, 30th August, 1909.

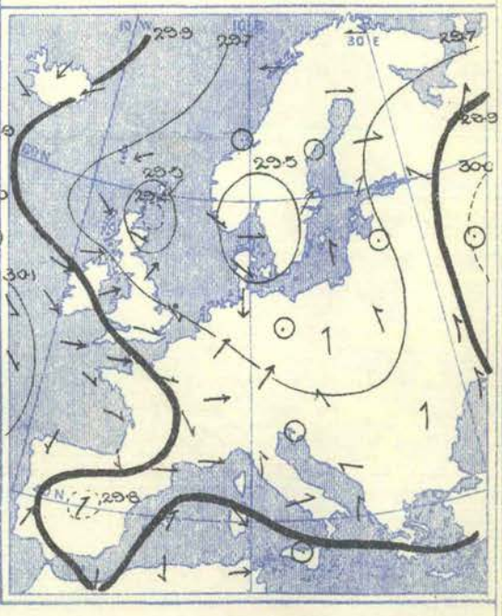
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine over the greater portion of our area, but showery on the east coast of England, and rainy in various parts of Scandinavia. Some rain later in many localities in these Islands, the Low Countries, central Europe, and Scandinavia. Continuing dry over the southern countries of Europe.

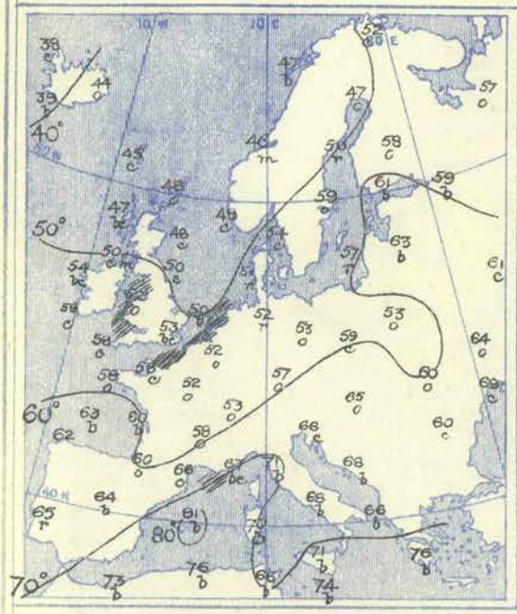
Temperature fallen in most regions. Readings in morning below 50° in Scotland, and not much above it over a considerable portion of England and Ireland. About 60° over central Europe and Russia, and nearly 80° at a few places in the far south of our area. Maxima during day not much above 60° in any part of this country, and below it in many places, but above 70° very generally in the central countries of the Continent, and above 80° at many southern stations; highest figure, 93° at Madrid.

Wind in morning between West and North-West over these Islands and France, and Southerly to South-Westerly over the Baltic and nearly the whole of northern Europe. Fresh in a few places, but very light or moderate generally. Light, variable airs prevalent over the Mediterranean and southern Europe. Increasing considerably in force on our north and north-west coasts during day, and becoming high at Stornoway. A high wind from the North-Eastward setting in at Thorshavn.

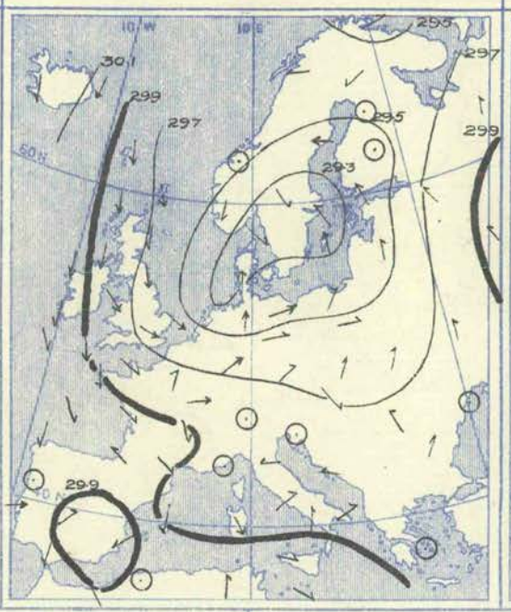
Barometer in morning relatively high both in the east and south-west of our area, lowest in the far north, and relatively low in the south. A well-marked depression travelling south-eastwards during day from beyond Scotland to the North Sea off the east of Scotland, and a large, shallow system forming over the south of Scandinavia and Denmark. Pressure increasing rather decidedly over Iceland, and decreasing over the north and east of these Islands.

Tuesday, 31st August, 1909.

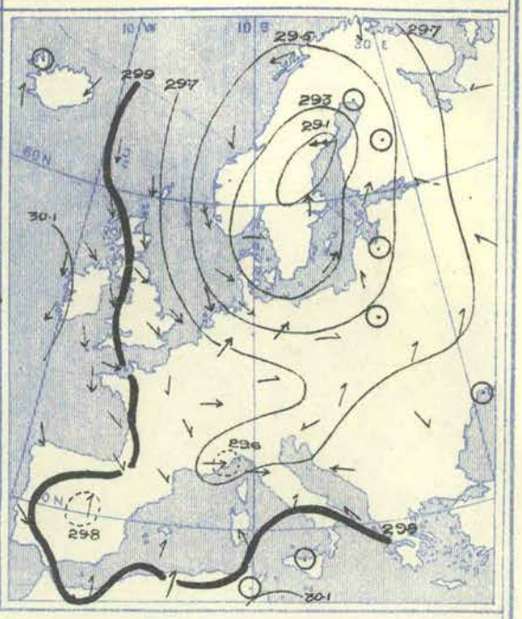
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled, with much cloud and some rain, in the northern and north-western countries; fair to fine in nearly all the southern regions, but rain falling at Lisbon and Bilbao. Rain or passing showers later in various parts of these Islands and over a large area on the Continent; measurements small generally, but rather large in Scandinavia, and also in the south of Russia.

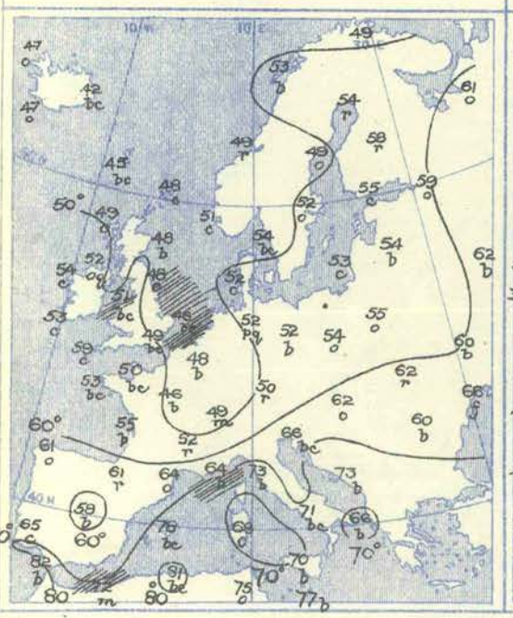
Temperature fallen or changed little. Readings in morning ranging from above 70° in the south of our area, and nearly 80° in places, to about 60° in Russia, and to about 50° over a large portion of the United Kingdom and Scandinavia. Maxima during day below 60° over most of this country, but above 70° over central Europe, and as high as 79° at St. Petersburg. Thermometer rising to above 80° in the far south, and to nearly 90° in places. Minimum readings of the night rather low over central England.

Wind in morning circulating cyclonically over nearly the whole of our area. North-Westerly current strong or high on the North Sea, and fresh to strong over the west and south of England. Little change as a whole later in day, but increasing to a gale at Hernösand and Skudesnaes. Some increase in force from the Westward taking place on the south coast of France and in the north of Italy.

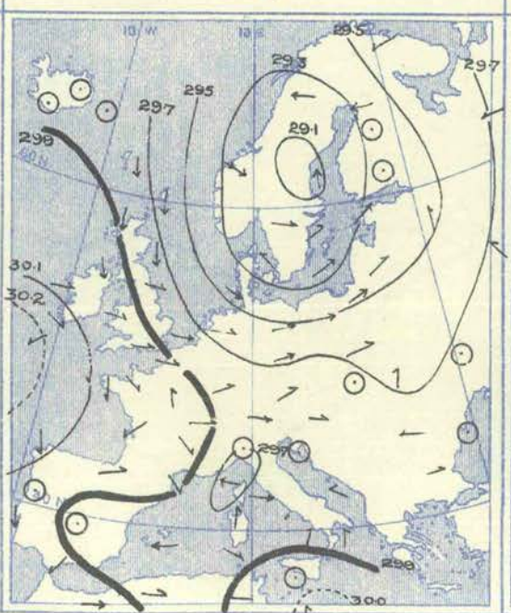
Barometer in morning above 30·0 ins. in the west of Ireland and over the adjacent portion of the Atlantic to below 29·3 ins. in a depression over Denmark and southern Scandinavia. Relatively low in shallow systems in the south of our area. Main depression travelling further northwards during day and increasing in intensity. Barometer rising over these Islands and their neighbourhood, but falling again in Iceland.

Wednesday, 1st September, 1909.

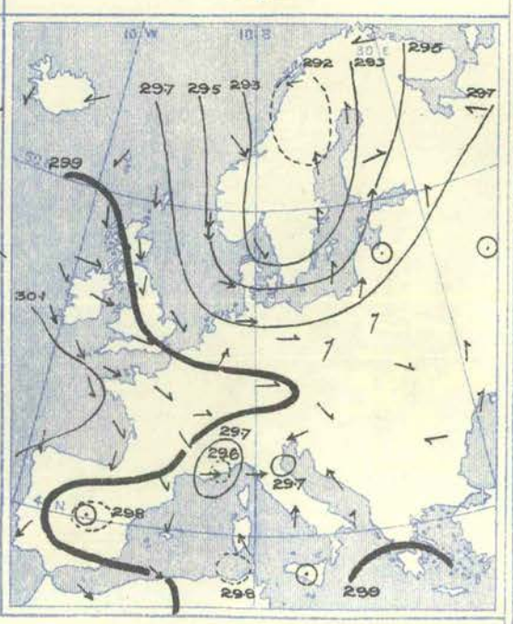
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled over the greater portion of our area, with a good deal of cloud, and rain in places over a large tract on the Continent. Fair to fine and bright at nearly all stations in the Mediterranean region, but rainy at Barcelona. Some rain later in nearly all parts of these Islands, and also in many localities on the Continent; amounts heavy in northern Italy, and nearly as much as 1·5 in. measured at Palma. Thunderstorms occurring at Flushing, Cuxhaven, Palma, and Rome.

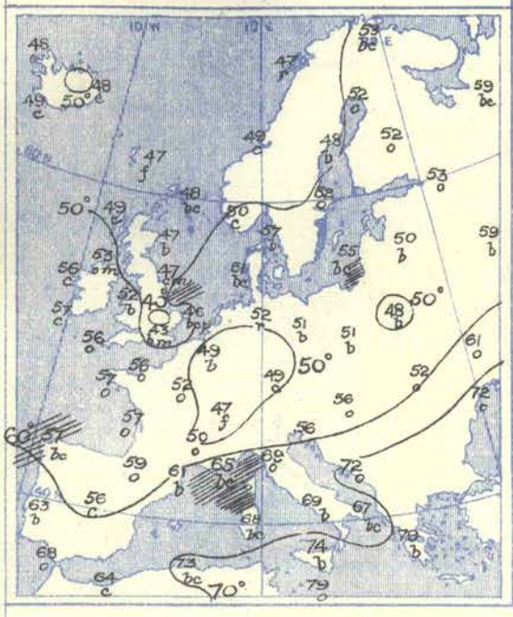
Temperature fallen in most regions. Readings in morning below 50° at most stations in Great Britain, and at several in France and Germany, but above 60° in Russia, and above 70° at most places in the south of our area; highest value, 82° at San Fernando. Maxima during day below 55° at some Scottish stations, and below 60° over these Islands generally. Lower than on the preceding day over the northern half of Europe as a whole, but above 80° at various places in the far south, and nearly 90° at Bucharest.

Wind in morning showing a very extensive cyclonic circulation over the northern half of Europe, and a smaller cyclonic movement in the north of Italy and its vicinity. North-Westerly current moderate to fresh in these Islands, but strong to a gale beyond the North Sea, and South-Westerly current strong over the Baltic and Gulf of Bothnia. Gale continuing all day on the west coast of Norway, and wind increasing considerably from various quarters over the Gulf of Genoa region.

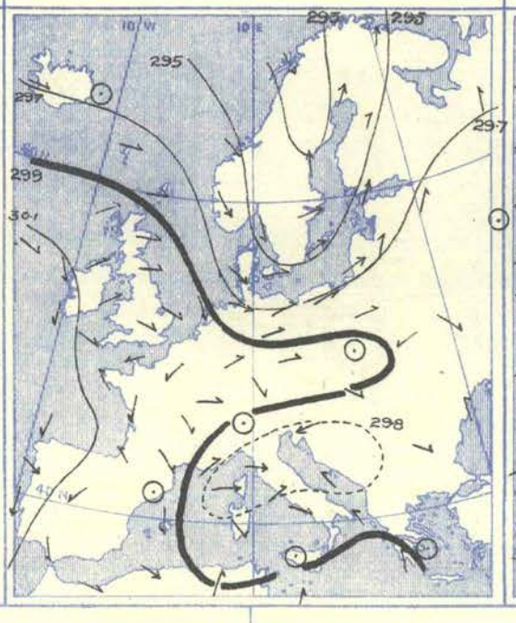
Barometer in morning ranging from above 30·1 ins. over the south-west of Ireland and the adjacent part of the ocean to below 29·1 ins. in a very large depression having its minimum over the centre of Scandinavia. Gradient rather steep over the North Sea. Main depression moving slowly northward during day, and barometer rising rather decidedly over the North Sea and the Baltic. Falling somewhat in Ireland and scarcely changing in Iceland.

Thursday, 2nd September, 1909.

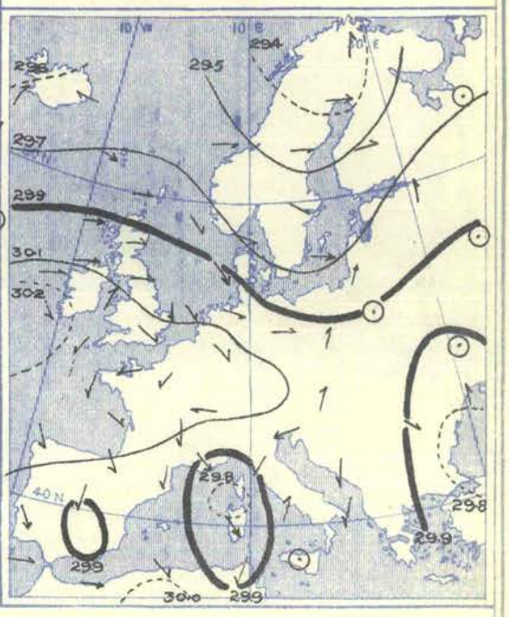
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine over most of this country and the southern half of the Continent, but rain falling at Yarmouth, in some parts of Spain, and at Trieste, and a good deal of cloud prevailing in places. Unsettled over the northern countries, with rain at times in several localities. Slight rain falling later at several places in this country, and larger quantities over a wide area on the Continent; as much as 1·4 in. at Lesina.

Temperature fallen in most parts of these Islands; morning readings below 50° in almost all parts of Great Britain, and below 40° in the Midlands. About 50° over the central countries and in Sweden, above 70° at Odessa and at many stations on the shores of the Mediterranean, and as high as 79° at Malta and Patras. Maxima during day a little above 60° over most of the United Kingdom, Germany, and Austria, and above 70° very generally over the south of our area. Thermometer exceeding 80° at a few stations, and touching 91° at Bucharest.

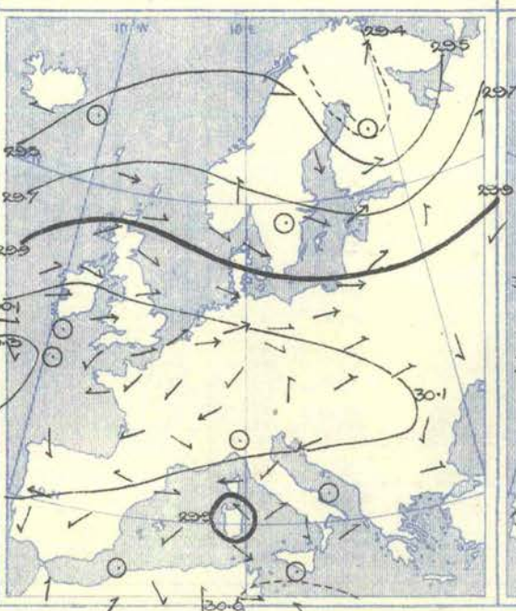
Wind in morning light to moderate from West or North-West over these Islands, fresh to strong from West or South-West in Germany and over the Baltic, and from the Southward over the Gulf of Bothnia. A separate cyclonic circulation of varying force prevailing over the more southern regions. No change of a general character during day; increasing to a gale from the Westward at Christiansund.

Barometer in morning below 29·3 ins. in a large depression having its centre in the far north of our area, and below 29·8 ins. in another disturbance over Italy and its neighbourhood. Above 30·1 ins. in a large anticyclonic system lying to the westward of this country, and relatively high in a band extending thence to Poland. No great modification occurring in the general distribution of pressure during day; pressure increasing very briskly over the south of Scandinavia, and slowly over Ireland, England, France, and Germany.

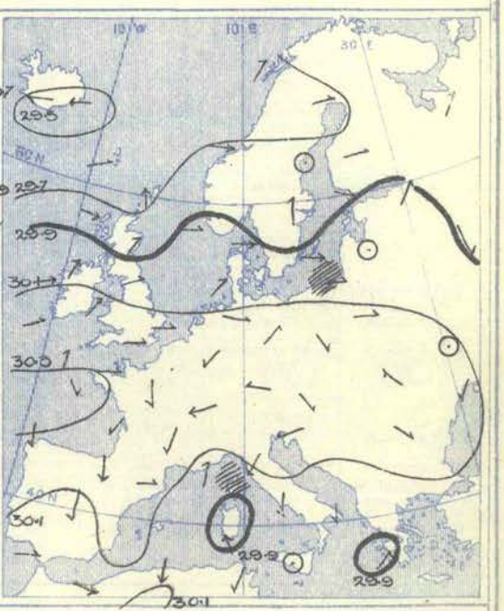
Friday, 3rd September, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in the west of Norway, at some places in the north of England, the Hebrides, and at Turin, and very cloudy or overcast in some other regions, but generally fair to fine and bright. Some rain later in the west and north of these Islands, and larger quantities in various parts of Russia, Corsica, and Sardinia; largest measurement, 1·2 in. at Cagliari.

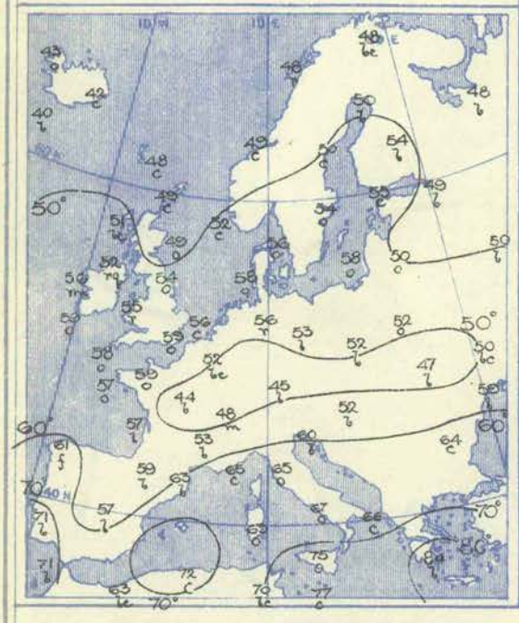
Temperature risen over these Islands. Readings in morning ranging from 43° at Belfort to about 50° or very little higher over the United Kingdom and most of the mainland of the Continent, to above 60° in the far south, and to above 70° on some shores of the Mediterranean and Black Sea. Maxima during day 71° at Scarborough and above 65° at some other of our stations. Thermometer only touching 65° over a large part of Germany and Austria, but rising to between 75° and 80° at some stations in the south of our area, and to above 80° in places.

Wind in morning of little force from between West and South-West at nearly all places over the northern half of our area, and light or moderate from some Easterly point in the south. Increasing to a fresh breeze from the West on our most north western coasts, and a moderate breeze from the East setting in over Iceland. A strong Easterly breeze springing up at San Fernando, and a high wind from West at Sfax.

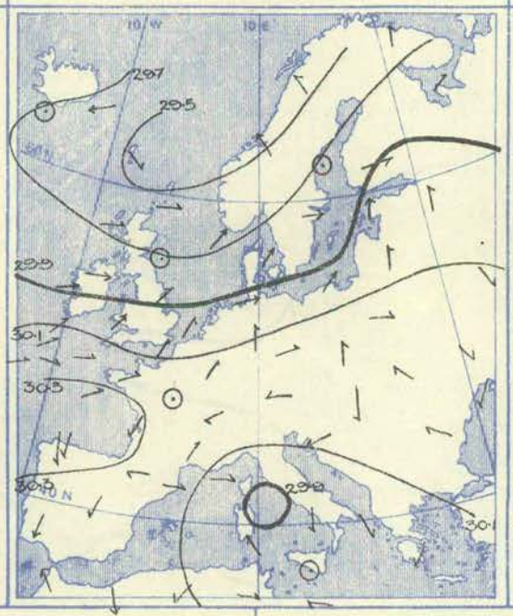
Barometer in morning ranging from above 30·2 ins. in an elongated band of high pressure extending from the Atlantic and the Bay of Biscay as far as Poland to below 29·4 ins. in a depression in the extreme north of Scandinavia. A large depression extending over these Islands from the Icelandic region during day, and pressure giving way rather decidedly in Scotland. Little change taking place elsewhere, and anticyclonic band maintaining its position.

Saturday, 4th September, 1909.

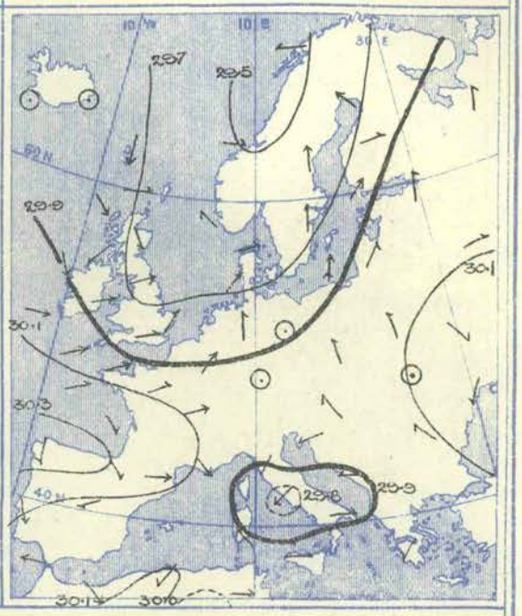
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine over most parts of central and southern Europe, but much cloud prevailing in the north, with rain at some of our own stations and in a few places elsewhere. Rain experienced later throughout these Islands, and in nearly all parts of the Continent except the Spanish Peninsula. Not heavy in amount in this country, but more than half an inch in several localities on the Continent, 0·9 in. at Cuxhaven, and 1·2 in. at Lesina.

Temperature showing no decided change. Morning readings ranging from 84° at Athens, and between 70° and 80° over a large portion of the Mediterranean to below 50° over the central countries and in some northern regions; lowest values 44° at Paris and 42° at Cassel. Maxima during day only about 60° at most of our own stations and in the Netherlands, and below 70° in central Europe and in the north of Italy, but between 70° and 80° in the south of France and the Mediterranean region generally, and above 80° in places.

Wind in morning Westerly to South-Westerly very generally over the northern half of our area, and fresh in force in several localities, but light from the Eastward at Bodö and in Iceland. A feeble cyclonic circulation shown over the Mediterranean. Increasing to a fresh or strong breeze on our western and southern coasts by evening, and to a high wind in exposed places; a gale from South springing up at Wisby. Veering towards North in Scotland and Ireland.

Barometer in morning above 30·3 ins. over the Bay of Biscay, and above 30·2 ins. in a band extending thence to the Black Sea. Below 29·9 ins. in a depression over Corsica, and below 29·5 ins. in a large system between Norway and Iceland. Pressure giving way later over the south of these Islands and the greater portion of the Continent. Northern depression moving slowly eastwards, and some ill-defined secondaries passing across this country.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). *See* also p. 284.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	August 30th, 4.53 p.m. to 5.33 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 88% 270°, 7	283° 90% 268°, 10	282° 90% 268°, 12	278° 95% 265°, 15				276° 97% 269°, 16	1,170	Overcast and dull. Fresh breeze. Clouds, Cu.-Ni. 10.
2	August 31st, 9.3 a.m. to 10.25 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281° 85% 337°, 6	280° 86% 337°, 9	279° 87% 337°, 10	275° 94% 338°, 15	273° 95% 347°, 16			270° 80% 350°, 15	1,900	Overcast to fair. Moderate breeze. Clouds, Cu.-Ni. 10 to 6. Freezing above 1,500 m.
3	Sept. 1st, 9.25 a.m. to 10.30 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281·5° 85% 326°, 5	280° 86% 315°, 9	279° 94% 312°, 11	276° 96% 300°, 16	272° 98% 298°, 16			270° 100% 297°, 16	1,800	Fair. Gentle to moderate breeze. Clouds, Cu. 5 to Cu.-Ni. and Cu. 10. Freezing above 1,500 m.
4	Sept. 2nd, 11.20 a.m. to 3.50 p.m.	Aldershot, 80 m.	Temperature Humidity .. Wind .. .	286° 95%		280° 95%	275° 95%				275° 95%	1,200	
5	Sept. 2nd, 1.55 p.m. to 3.29 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind . .	286° 75% 290°, 3	285° 76% 285°, 8	284° 77% 286°, 9	278° 85% 276°, 12	275° 94% 268°, 12			274° 95% 265°, 12	1,610	Very fine. Gentle breeze. Clouds, Cu. 5.
6	Sept. 3rd, 3.10 p.m to 4.19 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	285° 100% 281°, 4	284° 100% 278°, 8	283° 100% 277°, 10	279° 100% 270°, 16	276° 100% 264°, 17			274° 100% 268°, 16	1,780	Dull, wet and misty. Gentle breeze. Clouds, Ni. 10. Highest wind velocity at 1,150 m., viz., 18 m. per sec.
7	Sept. 4th, 9.45 a.m. to 11.5 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	287° 90% 280°, 12	285° 90% 280°, 12	282° 95% 280°, 13	279° 90% 285°, 14				278° 90% 285°, 15	1,150	Overcast. Alt.-St. Very heavy rain squalls later in the day.
8	Sept. 4th, 10.4 a.m. to 10.45 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	287·5° 95% 225°, 8	286·5° 95% 230°, 12	284° 100% 250°, 14	282° 100% 270°, 16					1,000	Overcast, steady rain by 11 p.m.
9	Sept. 4th, 3.10 a.m. to 5.0 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 98% 225°, 4	283° 100% 225°, 10	282° 100% 230°, 15	277·5° 100% 260°, 17	275° 100% 265°, 17	271·5° 100% 266°, 18		270° 100% 270°, 18	2,350	Dull and wet. Gentle breeze, increasing later. Clouds, Ni. 10. Freezing above 1,800 m.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9
No. of Kites or Balloons	1	1	1	—	2	1	1	1	1
Area of Surface (sq. metres) ..	7·5	7·5	7·5	—	15	7·5	7	7	7·5
Capacity of Balloon (cub. metres)	—	—	—	?	—	—	—	—	—
Length of Wire (metres)	1,550	2,280	2,250	—	2,400	2,500	1,800	1,100	3,600

63, Victoria Street, London, S.W. *September 8th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 36. THIRTY-SIXTH WEEK, SUNDAY SEPTEMBER 5TH TO SATURDAY SEPTEMBER 11TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather continued cool and unsettled, rain being frequent, although not often heavy, and the sky overcast during considerable periods. A severe thunderstorm occurred at Cromer on Monday, and very sharp thunderstorms at stations on the south and south-east coasts of England on Friday and Saturday.

Temperature was below the average, the deficit being as much as 4° in the Midland Counties, England N.W. and S.W., and nearly as much in the other English districts. The highest of the maxima were generally registered on the 5th or 6th, and ranged from 71° or 70° at various stations in eastern Britain to 64° in Ireland N. and England N.W. During a considerable part of the week the maxima were only 60° or rather lower over the greater portion of the Kingdom. The lowest of the minima, which were recorded during the later half of the week, ranged from 30° in England S.W. (at Llangammarch Wells on the 9th), and 34° in the Midland Counties and Scotland E. to 41° in Scotland N. and to 49° in the English Channel. The lowest grass readings reported were 25° at Hereford and Llangammarch Wells, 26° at Manchester, and 27° at Cambridge and Birmingham.

Mean Temperature of the Sea.—On most parts of the coast the water was warmer than during the corresponding week of last year, but at Plymouth it was nearly 3° colder. The actual means for the week ranged from 60°·4 at Eastbourne and 60°·2 at Newquay to less than 54° at nearly all the northern stations, to 51°·6 at Burnmouth, and to 51° at Lerwick

Rainfall showed a moderate excess in England S.E., and deficit in Ireland S., the records elsewhere differing but little from the normal. At Cromer on Monday as much as 1·55 inch fell in 55 minutes—1.35 p.m. to 2.30 p.m. At Ventnor on Friday unusually heavy rain fell between 7 a.m. and 9 a.m., and at some other southern stations the fall exceeded an inch.

Bright Sunshine differed little from the average. The percentage of the possible duration ranged from 48 in England S.E., 47 in the English Channel, and 43 in Scotland W. to 29 in Scotland N. and to 28 in Ireland N.

Barometer and Wind.—During the earlier days of the week a large depression moved south-eastwards over the North Sea region, and the wind blew with considerable force from the North-Westward and Northward on many parts of our western and northern coasts, reaching the strength of a gale at Holyhead for a time on Tuesday. On the disappearance of this system an anticyclone extended across Ireland and the northern districts of Britain from the Atlantic and the wind decreased to a moderate or light breeze Towards the end of the week, however, all the southern districts came under the influence of a depression extending northwards across France, the wind shifted to the North-Eastward over the the south and south-east of England and blew a fresh to strong breeze or high wind.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 292.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Very deficient	Deficient	Deficient	Moderate
	Rainfall ...	Moderate	Heavy	Moderate	Moderate	Moderate	Heavy	Moderate	Moderate	Moderate	Moderate	Light	Heavy
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 1 week from Sept. 5th, 1909.	Warmth ...	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 0
	Rainfall ...	0 * 0	1 * 0	0 * 0	0 * 0	0 * 0	1 * 0	0 * 0	0 * 0	0 * 0	0 * 0	0 * 1	1 * 0
	Sunshine ...	0 * 0	0 * 0	0 * 0	0 * 0	0 * 0	0 * 0	1 * 0	0 * 0	0 * 0	0 * 0	0 * 0	0 * 0

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

8106/450 Wy. & S. Ltd. 9—09.

TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-SIXTH WEEK—September 5th to September 11th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	68	41	57·0	45·6	51·0	- 2·2	63	- 16	0	0	6	+ 1	1·10	+0·11	27	+ 2	29	+ 2
Eastern																		
1. SCOTLAND, EAST	70	34	58·8	43·5	50·8	- 3·4	62	- 24	0	0	5	+ 1	0·74	+0·22	32	+ 1	34	+ 1
2. ENGLAND, N.E.	69	35	59·6	45·3	52·1	- 3·8	71	- 27	0	0	5	+ 2	0·49	-0·11	33	- 1	36	- 1
3. ENGLAND, EAST	70	39	61·8	46·8	53·9	- 3·8	83	- 27	0	0	5	+ 2	0·50	+0·02	38	0	41	0
4. MIDLAND COUNTIES ..	71	34	60·3	45·5	52·5	- 4·0	74	- 28	0	0	5	+ 2	0·41	-0·10	33	0	36	0
5. ENGLAND, S.E.	70	33	62·1	48·7	55·1	- 3·7	92	- 26	0	0	6	+ 3	0·88	+0·31	44	+ 5	48	+ 6
Western																		
6. SCOTLAND, WEST	68	35	60·1	45·0	52·2	- 2·6	71	- 19	0	0	4	+ 1	0·84	-0·10	40	+ 7	43	+ 8
7. ENGLAND, N.W.	64	35	58·7	46·6	52·3	- 4·0	72	- 28	0	0	3	0	0·74	+0·04	33	+ 1	36	+ 1
8. ENGLAND, S.W.	68	30	59·6	48·0	53·5	- 4·0	81	- 27	0	0	6	+ 2	0·60	-0·11	35	- 2	38	- 2
9. IRELAND, NORTH	64	37	58·6	47·3	52·7	- 2·5	75	- 18	0	0	6	+ 1	0·98	+0·20	26	- 2	28	- 2
10. IRELAND, SOUTH	67	36	61·0	48·3	54·4	- 2·0	87	- 14	0	0	5	+ 1	0·33	-0·38	37	+ 4	40	+ 5
11. ENGLISH CHANNEL	69	49	63·4	54·5	58·8	- 1·3	118	- 9	0	0	6	+ 3	0·73	+0·17	43	- 2	47	- 2

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 1 Week, September 5th to September 11th, 1909.

0. SCOTLAND, NORTH	68	41	*	*	*	*	63	- 16	0	0	6	+ 1	1·10	+0·11	27	+ 2	29	+ 2
Eastern																		
1. SCOTLAND, EAST	70	34	*	*	*	*	62	- 24	0	0	5	+ 1	0·74	+0·22	32	+ 1	34	+ 1
2. ENGLAND, N.E.	69	35	*	*	*	*	71	- 27	0	0	5	+ 2	0·49	-0·11	33	- 1	36	- 1
3. ENGLAND, EAST	70	39	*	*	*	*	83	- 27	0	0	5	+ 2	0·50	+0·02	38	0	41	0
4. MIDLAND COUNTIES ..	71	34	*	*	*	*	74	- 28	0	0	5	+ 2	0·41	-0·10	33	0	36	0
5. ENGLAND, S.E.	70	33	*	*	*	*	92	- 26	0	0	6	+ 3	0·88	+0·31	44	+ 5	48	+ 6
Western																		
6. SCOTLAND, WEST	68	35	*	*	*	*	71	- 19	0	0	4	+ 1	0·84	-0·10	40	+ 7	43	+ 8
7. ENGLAND, N.W.	64	35	*	*	*	*	72	- 28	0	0	3	0	0·74	+0·04	33	+ 1	36	+ 1
8. ENGLAND, S.W.	68	30	*	*	*	*	81	- 27	0	0	6	+ 2	0·60	-0·11	35	- 2	38	- 2
9. IRELAND, NORTH	64	37	*	*	*	*	75	- 18	0	0	6	+ 1	0·98	+0·20	26	- 2	28	- 2
10. IRELAND, SOUTH	67	36	*	*	*	*	87	- 14	0	0	5	+ 1	0·33	-0·38	37	+ 4	40	+ 5
11. ENGLISH CHANNEL	69	49	*	*	*	*	118	- 9	0	0	6	+ 3	0·73	+0·17	43	- 2	47	- 2

THE YEAR.—Aggregates, &c., for the Period of 36 Weeks, January 3rd to September 11th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1491	-142	535	- 22	170	+ 5	26·66	-5·74	908	- 2	27	0
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	1657	-199	673	+ 53	142	+ 5	22·20	+2·11	1051	- 32	31	- 1
2. ENGLAND, N.E.	85	14	*	*	*	*	1994	- 54	580	+105	127	+ 4	18·49	+2·43	1148	- 20	34	- 1
3. ENGLAND, EAST	85	12	*	*	*	*	2180	-190	554	+ 33	128	+ 9	15·78	+0·39	1337	+ 72	40	+ 2
4. MIDLAND COUNTIES ..	86	8	*	*	*	*	2169	-169	642	+109	120	+ 2	17·41	+0·14	1202	+ 70	36	+ 2
5. ENGLAND, S.E.	86	0	*	*	*	*	2273	-264	482	+101	119	+ 6	18·25	+1·57	1426	+144	43	+ 4
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	1852	-141	445	+ 20	138	- 5	29·84	+0·05	1167	+ 53	35	+ 2
7. ENGLAND, N.W.	82	10	*	*	*	*	1993	-174	466	+ 80	132	+ 1	22·31	+0·40	1234	+105	37	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2153	-207	390	+ 89	130	+ 1	20·94	-2·42	1367	+113	41	+ 3
9 IRELAND, NORTH	78	14	*	*	*	*	1992	- 88	315	- 30	161	+ 4	22·73	-1·91	990	- 29	30	- 1
10. IRELAND, SOUTH	81	15	*	*	*	*	2330	- 57	265	+ 6	144	+ 5	21·36	-4·53	1162	+ 22	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	2678	- 35	151	+ 42	117	-19	16·60	-2·64	1630	+108	49	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℜ is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts	Names of Stations	Temperature. Highest observed.	Date.	Lowest observed	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
SCOTLAND, N. a, Islands.	p *Balta Sound* S	*58*	*5th*	*40*	*6th*	*52·9*	*44·5*	*48·5*	—	*46*	*0*	*6*	*0·82*	—	*22·8*	—	*24*	—	*Balta Sound.*
	a Sumburgh Head ..	55	10th, 11th	41	7th	52·6	45·0	48·6	– 2·5	46	0	7	1·02	+ 0·28	12·3	– 13·8	13	– 15	Deerness.
	a Stornoway	60	10th, 11th	42	8th	56·4	46·7	51·3	– 1·4	65	0	6	1·10	+ 0·11	23·7	– 4·3	25	– 5	Stornoway.
	a *Castlebay, Barra Isd.*	*57*	*9th, 11th*	*46*	*7th, 8th*	*56·0*	*49·3*	*52·5*	– *1·8*	*74*	*0*	*7*	*0·65*	—	*20·5*	—	*22*	—	*Castlebay.*
	a Wick	57	10th	42	8th, 11th	54·4	43·0	48·4	– 4·4	45	0	7	1·05	+ 0·45	*	*	*	*	
b, Mainland.	p Strathpeffer.. ..	67	10th	41	5th, 8th	58·3	46·1	51·9	– 1·1	69	0	5	0·74	+ 0·15	32·8	+ 5·5	35	+ 6	Strathpeffer.
	p Glencarron ..	66	11th	42	8th, 9th	56·6	45·8	50·9	– 0·9	62	0	6	1·78	– 0·07	*	*	*	*	
	p Fort Augustus	68	10th	41	5th	59·5	46·5	52·7	– 1·0	75	0	5	0·82	– 0·06	39·7	+19·7	42	+21	Fort Augustus.
	p Fort William S	67	9th, 11th	41	8th	61·1	45·8	53·1	– 1·0	78	0	6	1·16	– 0·40	*	*	*	*	
1. SCOTLAND, E.	p Gordon Castle S	67	10th, 11th	39	10th	60·2	43·3	51·3	– 3·1	65	0	6	0·89	+ 0·28	*37·9*	—	*29*	—	*Gordon Castle.*
	a Nairn	65	10th	43	8th, 9th	58·7	45·7	51·9	– 2·1	69	0	6	0·75	+ 0·23	27·5	—	29	—	Nairn.
	a Aberdeen	65	6th	43	9th	58·1	46·4	52·0	– 1·8	70	0	4	0·43	– 0·16	28·0	– 3·0	30	– 3	Aberdeen.
	a Balmoral .. S	66	11th	34	10th	59·6	41·1	49·9	– 1·2	59	3	4	0·94	+ 0·24	23·6	—	25	—	Crathes S.
	p Crieff .. .. S	70	9th	41	8, 9, 10th	60·7	43·8	51·8	– 3·1	69	0	4	0·38	– 0·42	43·9	—	47	—	Balruddery
	a Leith	64	9th	41	10th	59·1	45·0	51·7	– 4·2	68	0	3	0·37	– 0·13	32·9	+ 5·8	35	+ 6	Edinburgh.
	a West Linton.. S	64	10th	34	10th	56·1	39·2	47·2	– 5·7	48	8	5	1·12	—	*29·3*	—	*31*	—	*West Linton.*
	p Marchmont .. S	66	10th	39	9th	58·1	43·7	50·6	– 2·9	60	0	5	1·03	+ 0·35	38·3	+ 8·4	41	+ 9	Marchmont.
2. ENGLAND, N.E. a, North.	a Alnwick Castle ..	65	6th	36	9th	58·4	43·1	50·4	– 4·0	59	0	5	1·20	+ 0·60	29·8	—	32	—	Cockle Park.
	a Shields	65	6th	39	9th	58·1	43·9	50·7	– 4·6	61	0	5	0·73	+ 0·23	*23·9*	– *1·8*	*25*	– *2*	*Newcastle.*
	p Durham	64	5th	36	9th	57·4	43·7	50·2	– 5·3	57	0	6	0·47	– 0·02	28·3	– 1·4	30	– 2	Durham.
	p Rounton .. M	66	6th	35	9th	58·4	44·1	50·9	– 4·1	62	0	3	0·40	– 0·07	*	*	*	*	
	p Scarborough.. M	69	6th	42	9th	61·3	47·9	54·3	– 1·9	86	0	5	0·70	+ 0·20	24·4	—	26	—	Scarborough.
	p York	67	6th	38	9th	60·5	46·2	53·0	– 3·6	77	0	5	0·23	– 0·24	29·5	– 0·6	32	– 1	York.
b, South.	a Spurn Head	65	6th	42	9th	59·1	49·0	53·8	– 3·8	83	0	2	0·14	– 0·24	*	*	*	*	
	a Lincoln	68	6th	40	9th	61·0	45·6	52·9	– 4·5	76	0	5	0·21	– 0·26	48·1	—	52	—	Skegness.
	a Fulbeck	68	6th	38	9th	62·2	44·5	52·9	– 4·4	76	0	5	0·31	– 0·15	39·0	—	42	—	Rauceby.
															38·9	—	*42*	—	*Lowestoft.*
	p Cromer	67	11th	45	6th	60·2	47·7	53·7	– 3·7	82	0	6	1·37	—	34·5	—	37	—	Cromer.
	p Hillington .. M	67	6th, 11th	41	10th	61·5	45·0	52·9	– 4·4	76	0	6	0·79	+ 0·21	34·2	– 1·2	37	– 1	Hillington.
3. ENGLAND, E. a, North.	a Yarmouth	68	6th	42	8th	61·3	48·4	54·5	– 3·4	88	0	6	0·35	– 0·15	40·7	—	44	—	Yarmouth.
	a Norwich	69	6th, 11th	40	10th	62·5	46·1	53·9	– 4·0	83	0	5	0·35	—	*	*	*	*	
	p Geldeston	68	6th	40	8th	62·2	45·0	53·2	– 4·4	78	0	4	0·20	– 0·28	35·6	– 3·4	38	– 4	Geldeston.
	p Cambridge	70	6th	39	8th	62·2	45·1	53·2	– 5·4	78	0	5	0·40	– 0·06	39·4	+ 1·4	42	+ 2	Cambridge.
b, South.	a *Felixstowe*	*68*	*6th*	*43*	*8th*	*61·9*	*49·0*	*55·1*	– *3·6*	*92*	*0*	*5*	*0·44*	—	*46·2*	—	*50*	—	*Felixstowe.*
	a Clacton-on-Sea ..	67	6th	42	8th	62·4	48·6	55·2	– 3·5	92	0	5	0·20	—	44·9	—	49	—	Clacton.
	a Rothamsted ..	67	6th	39	8th	61·0	45·6	52·9	– 3·8	76	0	5	0·28	– 0·25	37·7	+ 0·7	41	+ 1	Rothamsted.
	a *Shoeburyness* ..	*67*	*6th*	*42*	*8th*	*62·9*	*49·4*	*55·8*	– *3·9*	*97*	*0*	*6*	*0·20*	– *0·20*	*39·7*	—	*43*	—	*Southend.*
	p Tottenham	70	6th	43	8th	62·7	49·4	55·7	– 2·9	96	0	5	0·52	—	35·1	—	38	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	a Harrogate	63	6th	38	9th	57·4	44·3	50·5	– 4·5	60	0	5	0·35	– 0·22	31·4	—	34	—	Harrogate.
	a Bawtry	67	6th	39	9th	60·4	44·9	52·3	– 4·3	72	0	4	0·23	– 0·20	30·7	+ 1·0	33	+ 1	Worksop.
	p *Buxton* .. M	*61*	*6th*	*34*	*9th*	*55·4*	*43·6*	*49·2*	– *5·7*	*50*	*0*	*4*	*1·35*	+ *0·42*	*33·8*	—	*42*	—	*Buxton.*
	a Nottingham ..	67	6th	42	8th	60·3	46·3	53·0	– 3·7	77	0	4	0·52	+ 0·04	33·9	—	37	—	Nottingham.
	p Birmingham, Edgbn	67	6th	41	9th	59·2	46·0	52·3	– 4·8	72	0	4	0·21	– 0·30	25·5	—	27	—	Birmingham.
	a Raunds .. M	71	6th	37	8th	62·4	44·4	53·0	– 4·2	77	0	6	0·43	—	*	*	*	*	
	a Oxford	68	6th	40	8th	61·0	46·6	53·5	– 4·5	81	0	5	0·37	– 0·08	36·6	– 0·2	40	0	Oxford.
b, West.	a Cheadle .. M	64	6, 8, 9th	40	9th	61·2	45·1	52·8	– 2·1	76	0	3	0·92	+ 0·26	32·5	—	35	—	Sheffield.
	p Shrewsbury	66	6th	37	9th	60·6	45·7	52·8	– 4·3	76	0	4	0·28	—	*	*	*	*	
	a Hereford .. M	70	6th	34	9th	60·6	45·5	52·6	– 4·4	74	0	5	0·29	– 0·21	*	*	*	*	
	a Cirencester	66	6th	37	8th	59·8	45·9	52·3	– 3·4	72	0	6	0·27	– 0·33	35·4	– 0·4	39	0	Cirencester.
	a Bath	65	5th, 6th	39	8th	60·7	45·9	52·9	– 4·9	76	0	6	0·69	+ 0·10	41·2	—	45	—	Bath.
															52·7	—	*57*	—	*Ramsgate.*
5. ENGLAND, S.E.	p Kew	69	6th	42	8th	61·8	49·3	55·3	– 3·1	93	0	5	0·63	+ 0·13	37·5	+ 0·7	41	+ 1	Kew.
	a Marlborough ..	65	6th	33	8th	60·4	44·5	52·1	– 3·7	71	0	6	0·40	– 0·17	34·7	– 0·1	38	0	Marlborough.
	a Margate	69	11th	48	7th	64·2	52·2	57·9	– 1·8	111	0	6	0·26	– 0·20	50·3	+12·3	55	+13	Margate.
	a Wisley, Surrey ..	70	6th	39	8th	61·5	46·8	53·8	– 5·1	83	0	6	0·44	—	36·6	—	40	—	Wisley.
	a Swarraton .. M	67	6th	37	8th	60·4	45·7	52·7	– 4·1	75	0	7	0·56	0·00	52·1	—	57	—	Worthing.
	a Tunbridge Wells M	66	11th	38	8th	61·8	46·8	53·9	– 3·7	83	0	6	1·19	+ 0·66	42·2	+ 2·6	46	+ 3	Tunbridge Wells.
	a Dungeness	65	7th	43	8th	63·1	50·6	56·6	– 2·8	102	0	5	0·71	+ 0·24	47·5	—	52	—	Littlestone.
	p Hastings	64	5th, 11th	46	8th	62·9	50·8	56·6	– 2·7	102	0	5	0·83	+ 0·24	*48·6*	+ *6·1*	*53*	+ *7*	*Hastings.*
	p Southampton ..	69	6th	41	8th	62·4	49·4	55·6	– 4·1	95	0	6	0·89	+ 0·34	43·2	+ 2·0	47	+ 2	Southampton.
	a Ventnor	67	5th	44	8th	62·2	50·7	56·2	– 4·3	99	0	7	2·85	+ 2·28	47·0	+ 3·8	51	+ 4	Ventnor.
															50·5	+ 8·9	55	+10	Eastbourne.
LONDON	a *Westminster* ..	*69*	*6th*	*45*	*8th, 9th*	*62·4*	*48·6*	*55·2*	– *3·7*	*92*	*0*	*6*	*0·35*	– *0·12*	*29·9*	– *2·3*	*33*	– *3*	*Westminster.*
	a *Greenwich*	*71*	*6th*	*41*	*8th*	*63·3*	*47·7*	*55·1*	– *4·3*	*92*	*0*	*6*	*0·32*	– *0·13*	*35·0*	– *5·5*	*38*	– *6*	*Greenwich.*
6. a, SCOTLAND. W. ..	p Laudale	65	11th	42	8th	59·6	47·5	53·3	– 1·3	79	0	5	1·25	– 0·32	*	*	*	*	
	a Poltalloch .. S	62	10th	39	8th	59·3	44·9	51·8	– 3·4	69	0	4	0·88	– 0·23	*	*	*	*	
	p Glasgow	63	9th	41	10th	58·4	45·1	51·4	– 2·8	66	0	3	0·53	– 0·29	29·8	+ 3·8	32	+ 4	Glasgow.
	p Rothesay .. S	65	10th	43	8th	60·9	46·1	53·1	– 2·0	78	0	4	0·88	– 0·16	*	*	*	*	
	a Kilmarnock	65	10th	35	5th	61·1	40·6	50·4	– 4·0	65	4	3	0·87	—	*35·3*	—	*38*	—	*Kilmarnock.*
	a Colmonell .. S	68	9th	37	11th	62·9	45·0	53·5	– 2·2	81	0	4	0·83	– 0·10	*	*	*	*	
	p Dumfries .. S	66	11th	39	9th	59·1	46·9	52·7	– 3·8	75	0	3	0·66	– 0·09	*36·1*	—	*38*	—	*Dumfries*
b, ISLE OF MAN ..	p Cally, Gatehouse S	68	10th	35	9th	61·8	41·6	51·2	– 2·9	66	1	4	0·88	– 0·11	*	*	*	*	
	p Douglas	61	10th	45	9th	58·1	47·5	52·6	– 2·4	74	0	3	0·79	– 0·11	50·2	+14·3	54	+15	Douglas.
															29·3	—	32	—	Hoylake.
7. a, ENGLAND, N.W. ..	p Aspatria	63	10th, 11th	38	9th	59·0	43·0	50·6	– 4·3	60	0	5	1·09	+ 0·18	38·9	—	41	—	Aspatria.
	p Newton Rigg ..	64	11th	35	9th	59·8	41·0	50·0	– 3·6	60	3	4	0·64	– 0·07	36·6	+ 5·7	39	+ 6	Newton Rigg.
	p Stonyhurst	61	6th	38	9th	57·2	45·8	51·2	– 3·9	64	0	2	1·29	+ 0·23	28·8	– 2·5	31	– 3	Stonyhurst.
	p Blackpool .. M	62	10th, 11th	39	9th	59·1	46·5	52·5	– 4·2	74	0	3	0·45	– 0·31	44·2	+11·7	48	+13	Blackpool.
	p M'nch'ster,Prestwich	63	6th	38	9th	58·6	46·0	52·0	– 3·8	70	0	3	0·85	+ 0·02	*24·0*	– *3·6*	*26*	– *4*	*Prestwich.*
	a Liverpool (Bidston)	61	6th	46	9th	58·1	49·1	53·4	– 3·1	80	0	3	0·45	– 0·19	*31·1*	—	*33*	—	*Liverpool.*
	a Hawarden Bridge ..	64	6th	42	9th	59·2	48·2	53·4	– 4·3	80	0	4	0·43	– 0·09	*37·4*	+ *3·4*	*40*	+ *4*	*Southport.*
															28·3	—	*31*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	62	6th	48	7, 8, 9th	58·6	50·3	54·3	– 3·4	86	0	3	0·51	– 0·08	31·1	– 1·8	33	– 2	Llandudno.
	a Holyhead	62	5th, 6th	47	8th, 9th	58·0	49·3	53·4	– 3·6	80	0	4	0·49	– 0·17	27·9	—	30	—	Aberdovey.
	p Bettws-y-Coed ..	63	5th, 6th	43	9th	59·1	46·7	52·6	– 4·4	74	0	3	1·23	—	27·4	—	30	—	Bettws-y-Coed.
															20·2	—	22	—	Aberystwyth.
8. a, SOUTH WALES ..	a Llangammarch Wells	62	6th	30	9th	57·7	41·0	49·0	– 5·9	53	3	4	0·55	—	20·6	—	22	—	Llangammarch Wells.
	a Pembroke	63	10th	44	8th	59·4	49·4	54·2	– 3·2	85	0	3	0·18	– 0·50	37·2	– 0·8	40	– 1	Pembroke.
	a Cardiff	64	5th, 6th	43	8th	58·9	47·5	52·9	– 4·9	76	0	5	0·31	– 0·56	*32·9*	—	*36*	—	*Cardiff.*
																			Tenby.
	a Clifton	66	6th	43	9th	59·6	48·2	53·6	– 5·0	81	0	6	0·62	– 0·05	*38·2*	—	*42*	—	*Clifton.*
	a Shaftesbury .. M	66	6th	41	8th	59·3	47·0	52·9	– 4·2	76	0	7	0·91	+ 0·26	*	*	*	*	
	a Arlington	63	5th	40	9th	57·4	46·9	51·9	– 4·4	69	0	6	1·01	– 0·08	36·9	– 4·2	40	– 5	Newquay.
b, ENGLAND, S.W. ..	a Cullompton .. M	68	5th	38	8th	61·9	46·9	54·0	– 3·5	84	0	6	0·55	– 0·08	38·0	+ 0·8	41	+ 1	Cullompton.
	a Portland Bill ..	64	5th, 6th	47	8th, 9th	61·1	50·7	55·7	– 3·7	96	0	7	1·23	—	*47·2*	—	*51*	—	*Weymouth.*
	p Plymouth	66	5th	45	9th	60·9	50·9	55·7	– 3·1	96	0	6	0·20	– 0·44	46·6	+ 6·6	51	+ 7	Plymouth.
	p Falmouth	65	5th	46	9th	59·9	51·5	55·5	– 3·0	95	0	6	0·47	– 0·30	44·4	+ 2·1	48	+ 2	Falmouth.
															48·3	+ *7·3*	*53*	+ *8*	*Torquay.*
9. IRELAND, N. a, West.	a Malin Head	59	5th	47	9th	55·9	50·0	52·8	– 2·5	76	0	6	0·58	– 0·16	*	*	*	*	
	a Blacksod Point ..	61	5th, 9th	48	7, 8, 9th	58·1	50·7	54·2	– 1·5	85	0	7	1·38	+ 0·38	*	*	*	*	
	p Markree Castle ..	64	11th	41	8th, 9th	59·9	45·6	52·4	– 2·2	73	0	6	1·33	+ 0·43	24·0	– 2·6	26	– 3	Markree Castle.
	a Birr Castle	64	5th	37	9th	60·4	45·0	52·3	– 3·2	72	0	5	0·41	– 0·27	*23·5*	– *7·1*	*25*	– *8*	*Birr Castle.*
b, East.	p Armagh	64	10th	42	5th, 9th	59·9	45·8	52·5	– 2·4	74	0	5	0·72	+ 0·02	27·9	0·0	30	0	Armagh.
	a Donaghadee	60	6th	40	5th	57·6	46·4	51·7	– 4·0	68	0	4	1·46	+ 0·78	*	*	*	*	
10. IRELAND, S. a, East.	p Dublin, City.. ..	61	5th, 6th	41	9th	58·5	47·8	52·9	– 4·4	76	0	6	0·54	– 0·09	35·5	+ 1·0	38	+ 1	Phœnix Park.
	a Kilkenny	64	5th, 10th	36	9th	61·6	46·9	53·9	– 2·1	88	0	3	0·13	– 0·52	*	*	*	*	
	a Waterford	65	11th	40	9th	62·9	48·3	55·3	– 1·5	93	0	3	0·12	– 0·63	*	*	*	*	
	a Birr Castle	64	5th	37	9th	60·4	45·0	52·3	– 3·2	72	0	5	0·41	– 0·27	23·5	– 7·1	25	– 8	Birr Castle.
b, West.	a Foynes	62	5th, 10th	42	9th	59·8	50·1	54·7	– 1·9	89	0	6	0·44	– 0·33	*	*	*	*	
	a Cahir .. .. M	67	5th	39	9th	61·1	48·4	54·5	– 1·8	88	0	4	0·45	—	*	*	*	*	
	a Killarney	65	5th	40	9th	61·8	48·1	54·6	– 1·7	88	0	6	0·49	– 0·47	*	*	*	*	
	a Valencia	63	10th, 11th	43	9th	60·4	50·9	55·4	– 1·7	94	0	5	0·28	– 0·76	43·2	+11·3	47	+12	Valencia.
	a Roche's Point ..	67	5th	45	9th, 10th	62·7	49·3	55·7	– 1·5	96	0	5	0·09	– 0·69	45·3	—	49	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	65	5th	52	9th	60·4	55·0	57·6	– 1·8	109	0	6	0·32	– 0·28	34·3	– 9·5	37	– 10	Scilly.
	a Jersey, St. Aubins ..	69	10th	49	8th	64·6	54·4	59·3	– 2·1	121	0	7	1·01	+ 0·41	41·6	– 5·4	45	– 6	St. Heliers.
	a Guernsey	68	11th	50	8th	65·2	54·2	59·4	– 1·3	122	0	6	0·85	+ 0·18	53·0	+ 6·3	58	+ 7	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 46·2 hrs.* (+ *3·4 hrs.*), *50 %* (+ *4 %*); *Bournemouth, 46·9 hrs., 51 %*; *Bognor, 54·3 hrs., 59 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound	—	—	49·9	—
	— —				
	— —				
1.	Aberdeen	—	—	—	53·1
	Crathes	1	30	54·6	54·8
	Balmoral	0	32	—	—
	West Linton	1	29	—	—
	Marchmont	0	33	52·3	—
2.	Cockle Park	0	32	51·2	52·7
	Durham	0	31	—	—
	York	—	—	56·6	56·5
	Hull	0	35	55·1	56·0
	Lincoln	—	—	55·6	56·3
	Rauceby	0	37	56·7	56·4
3.	Norwich	0	34	—	—
	Yarmouth	—	—	56·7	58·6
	Lowestoft	0	38	56·9	58·2
	Cambridge	2	27	56·5	58·0
	Clacton-on-Sea	0	36	57·7	58·8
	Southend	0	42	58·3	—
	Tottenham	0	38	—	59·2
4.	Harrogate	0	33	53·6	54·2
	Huddersfield	0	33	55·1	54·8
	Buxton	0	31	53·8	54·1
	Sheffield	0	32	55·1	55·2
	Nottingham	0	37	54·5	56·8
	Birmingham	2	27	52·0	52·9
	Oxford	0	—	—	—
	Hereford	2	25	—	—
	Cirencester	1	29	—	—
5.	Margate	0	44	57·2	57·1
	Greenwich	1	29	—	—
	Westminster	0	38	—	—
	Kew	0	31	57·3	57·7
	Canterbury	0	37	56·7	57·9
	Tunbridge Wells	0	35	57·8	—
	Wisley	1	30	57·0	58·3
	Worthing	0	41	59·0	59·1
	Portsmouth	0	41	58·5	59·5
6.	Glasgow	0	32	—	—
	Rothesay	—	—	—	54·0
	Colmonell	0	36	—	—
	Dumfries	0	37	54·9	55·7
	Douglas	0	40	—	—
7.	Aspatria	0	31	—	—
	Newton Rigg	0	31	54·9	55·0
	Burnley	1	30	52·9	53·6
	Southport	1	29	57·8	58·8
	Manchester City	2	26	55·3	57·4
	Bettws-y-Coed	0	41	53·6	54·0
8.	Llangammarch Wells	3	25	54·9	55·1
	Cardiff	0	38	55·8	57·2
	Clifton	0	38	—	—
	Bath	—	—	58·9	—
	Plymouth	0	40	56·3	—
9.	Armagh	0	35	56·6	56·6
	Markree	0	36	57·1	56·9
10.	Dublin, Trin. Coll.	0	34	56·3	56·8
11.	Guernsey, Brooklyn	0	42	60·5	61·2

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	51	51	51·0
	Kirkwall	54	53	53·9
	Wick	53	53	53·0
SCOTLAND, E.	Cromarty	55	51	53·6
	Pennan Bay	55	52	53·2
	Aberdeen, Cove Bay	55	53	53·9
ENGLAND, N.E.	Burnmouth, Berwick	54	50	51·6
	Scarborough	57	54	55·6
ENGLAND, E.	Shipwash Lightship	61	59	59·9
	Margate‡	61	59	59·7
ENGLAND, S.E.	Eastbourne‡	61	60	60·4
SCOTLAND, W.	Lamlash	55	53	53·8
	Ballantrae	57	55	55·9
ENGLAND, N.W.	Port Erin	57	55	55·2
ENGLAND, S.W.	Newquay	61	60	60·2
	Plymouth‡	58	55	56·0
	Salcombe	60	55	58·5
IRELAND, N.W.	Sheephaven	58	57	57·6
	Teelin	59	55	57·6
IRELAND, S.W.	Cleggan	58	53	56·3
	Seafield	61	57	58·8
IRELAND, E.				

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

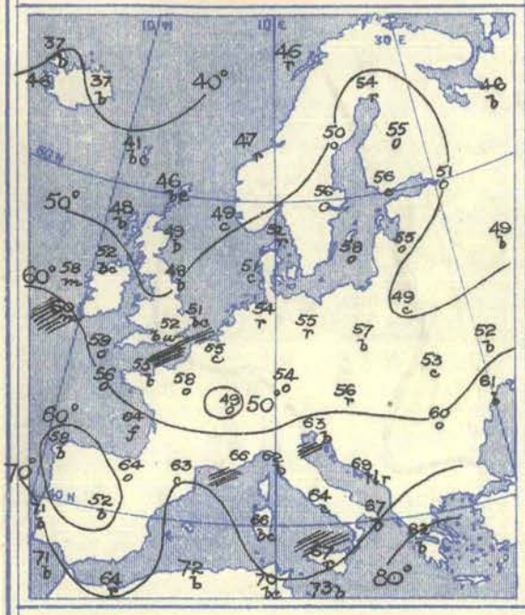
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

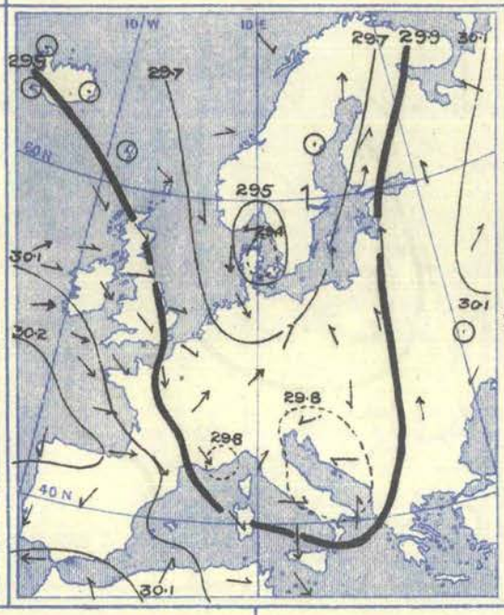
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 5th September, 1909.

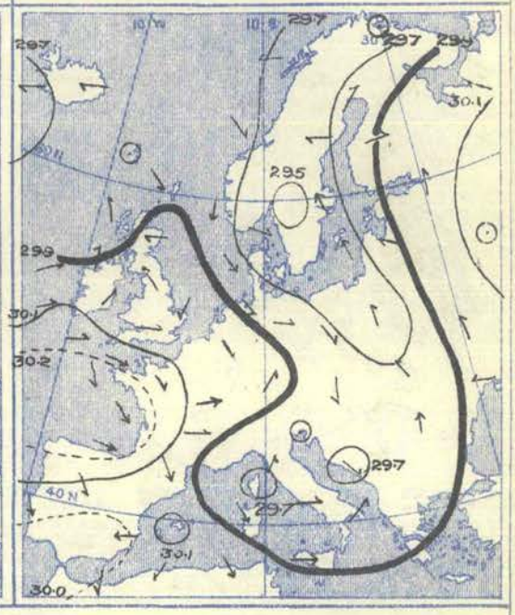
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair to very fine over these Islands and most parts of southern Europe and Russia, but rain falling at Palermo and Belfort, and a thunderstorm in progress at Lesina. Overcast or very cloudy over the central regions and Scandinavia, with rain in several localities. Rain experienced during the subsequent twenty-four hours over the greater portion of our area, more than an inch at Karlstad and Lesina, and 1·5 in. at Hermanstadt.

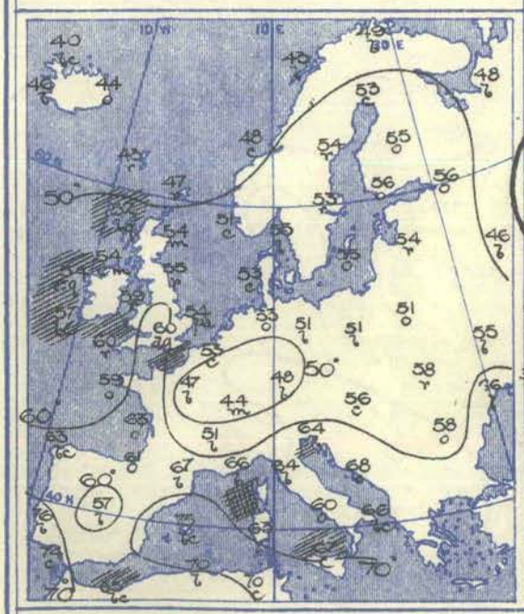
Temperature fallen over these Islands and the North Sea region. Readings in morning ranging from above 80° in Greece and above 70° at some other places in the far south to below 50° over the north of the United Kingdom and at various stations in the northern half of the Continent, as well as at Belfort. Maxima during day rather above 60° over a large part of this country and the central countries, above 70° very generally in the south of our area, and above 80° in places.

Wind in morning cyclonic except in the far east and south-west of our area, the chief circulation being around Denmark and its vicinity. Northerly current strong at the Helder, and that from South strong at Haparanda. Not much change later as a whole, but a high wind from North-West setting in over the south of France and Corsica. Backing to the Southward in the west of Scotland, and to South-West in Ireland.

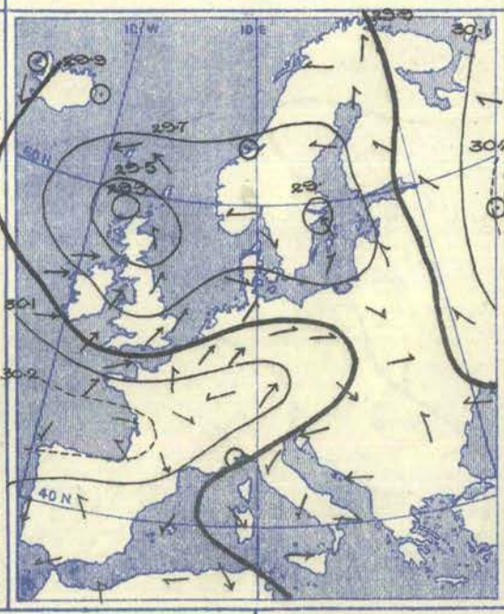
Barometer in morning above 30·3 ins. in the north of Spain and over the adjacent part of the ocean, and above 30·1 ins. in Russia. Below 29·4 ins. in a large depression having its centre over The Sound, and relatively low in other systems over southern Europe. Main depression travelling north-eastwards during day, and another disturbance beginning to extend over our north-western districts from the Atlantic. Pressure increasing steadily over England and the nearer parts of the Continent.

Monday, 6th September, 1909.

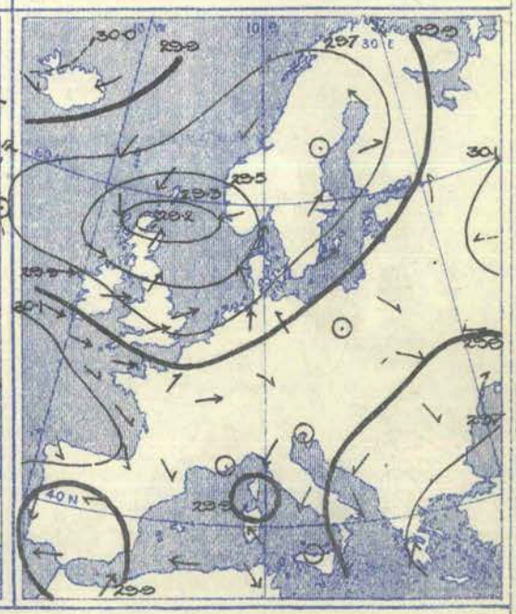
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning overcast, with rain in places, over the United Kingdom and Scandinavia, and rainy at Bilbao and Lemberg also; fair to fine in nearly all other regions. Rain falling later in most parts of our area, heavily in places; more than an inch at Donaghadee, Brindisi, and at Patras, and 0·8 in. at Copenhagen. Continuing dry over the south of France, and also in most Spanish localities.

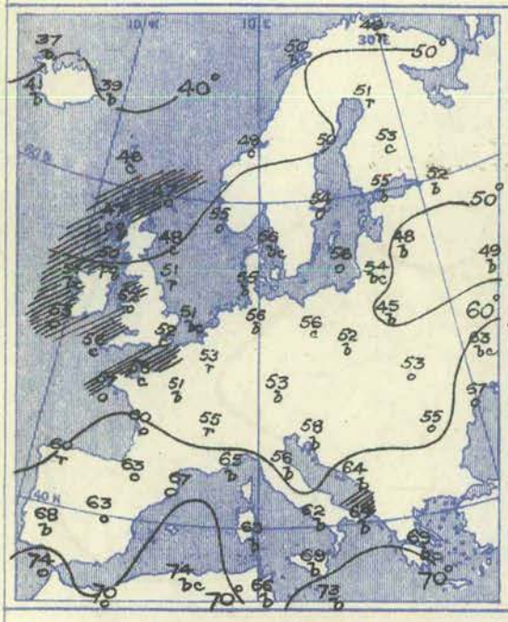
Temperature risen over these Islands, and morning readings ranging between 55° and 60° at most stations. Below 50° over a very large portion of the Continent, but above 60° over the Mediterranean region, and above 70° in places. Rising subsequently to 69° in London, and to above 65° at many other places in this country, but only touching 63° at many places in the central countries of Europe. Maxima between 70° and 80° at most stations in the far south, 88° at Bucharest, and 91° at Oporto.

Wind in morning showing two well-marked cyclonic circulations over the northern half of our area. Westerly and South-Westerly currents fresh to strong at many of our own stations and also over the Baltic. A fresh breeze to high wind from the North-Westward prevailing on some shores of the Mediterranean. Increasing in force during day over the greater part of this country and on the Dutch coast, and veering to the Northward in the Hebrides.

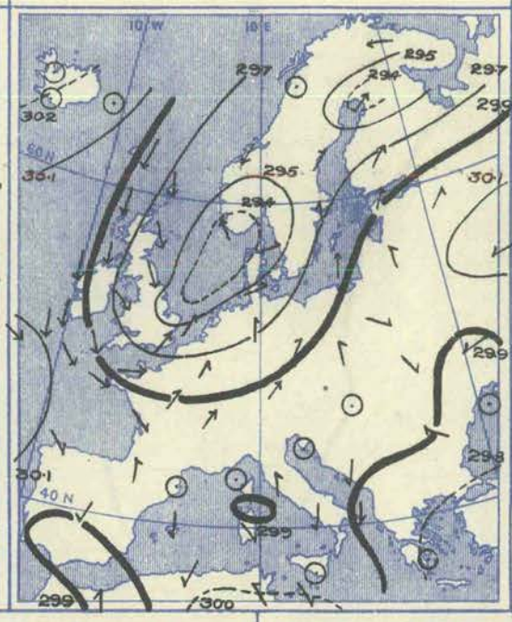
Barometer in morning below 29·3 ins. in a depression centred to the northward of Scotland, and not much higher in another disturbance over the south of Sweden. Above 30·2 ins. over the southern portion of the Bay of Biscay and also over central Russia. Scottish depression moving slowly south-eastwards during day, and that over Sweden taking up a position considerably further to the north-eastward. Pressure decreasing briskly over the North Sea and Holland, rising again in Iceland and the Hebrides.

Tuesday, 7th September, 1909.

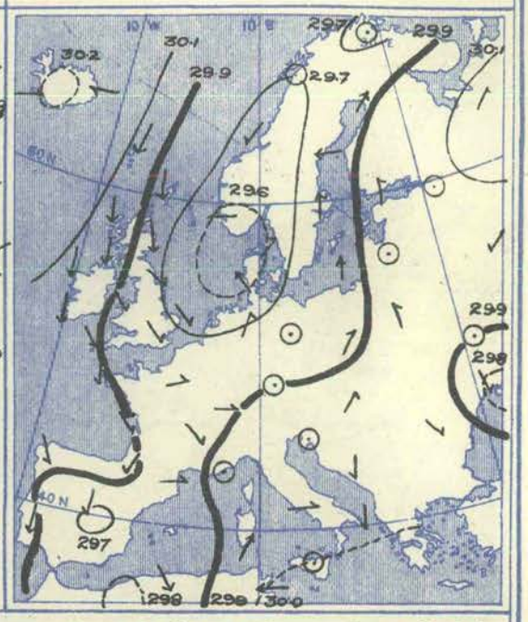
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled and rather rough over these Islands and the regions surrounding, with showers or steady rain in many places. Fair to very fine in nearly all parts of southern Europe and Russia, but rain falling at Corunna, and sky overcast in some other localities. Rain falling generally later over these Islands and the northern half of Europe, and also at Biarritz and Bilbao; as much as 1·3 in., with thunder and lightning, at the former station.

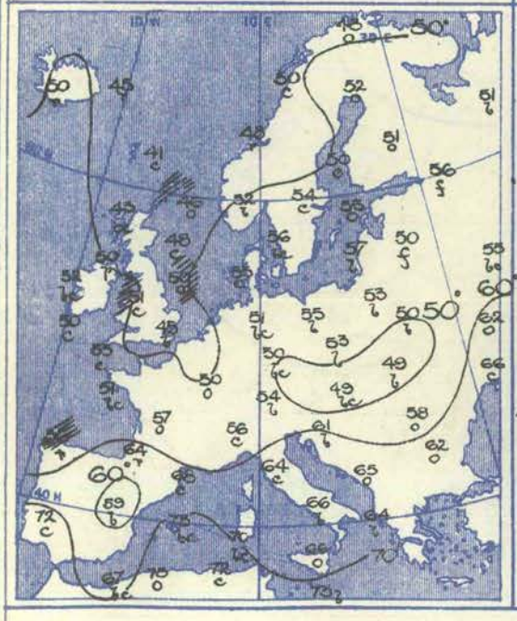
Temperature fallen over the United Kingdom and also in many other parts of our area. Readings in morning a few degrees on either side of 50° over a large portion of the Continent and at most of our own stations; above 60° very generally in the south, and as high as 77° at Palma. Maxima during day below 55° in various parts of these Islands, and little above 60° on the south coast. Below 70° throughout central Europe, but above that figure in southern Russia and over the Mediterranean region, about 80° in places, and as high as 91° at Madrid.

Wind in morning circulating cyclonically over the whole of north-western Europe. Northerly to Westerly current fresh to very strong or high over these Islands and the north of France, and blowing a gale at Holyhead; Southerly current fresh to strong over the Baltic. Light to moderate breezes from various quarters prevailing over the south of our area. Little change during day in direction, but decreasing somewhat in force on many parts of our coast.

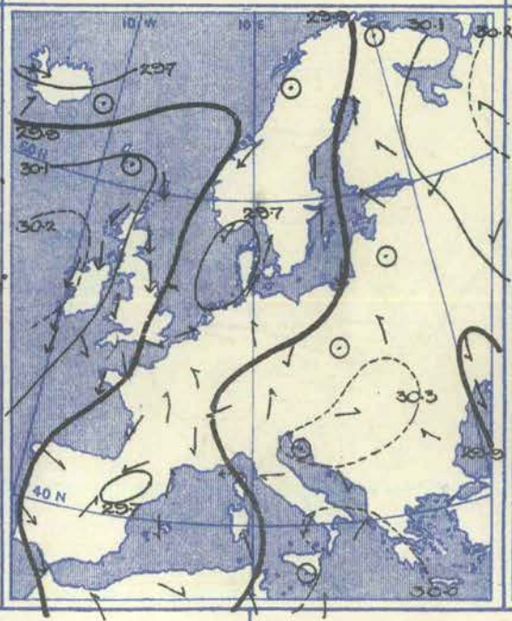
Barometer in morning below 29·4 ins. in a depression centred over Lapland, and in another over the North Sea, and below 29·8 ins. in a minimum over Greece and Turkey. Above 30·1 ins. both in the central districts of Russia and over the Icelandic region. North Sea disturbance becoming considerably less deep by evening, and that in the far north travelling away northwards. Rise of barometer rather brisk in the north of these Islands, but increase of pressure ceasing in Iceland.

Wednesday, 8th September, 1909.

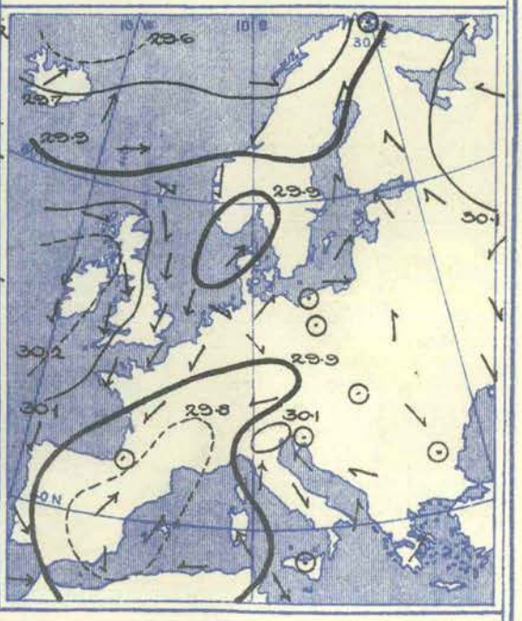
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning mostly very cloudy over these Islands, France, and Scandinavia, with rain in places. Fair to very fine in most parts of southern, central, and eastern Europe, but dull in some localities. Rain later over the greater part of this country, France, the north of Spain, and in Norway—more than an inch at Besançon. A thunderstorm experienced at Algiers, and thunder in a few parts of France.

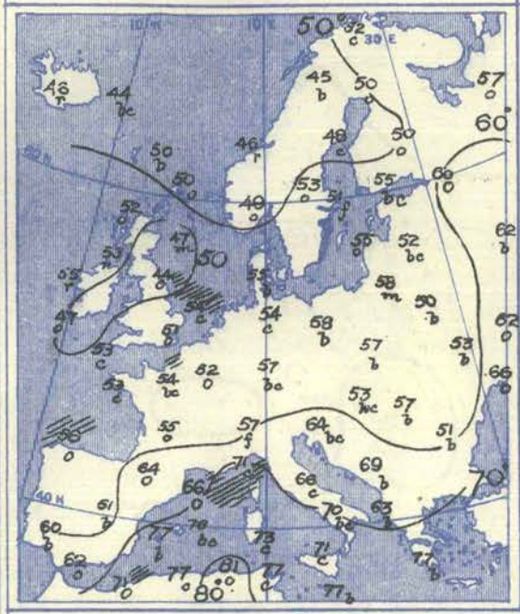
Temperature fallen in these Islands and their neighbourhood. Readings in morning ranging from above 70° at various places in the south of our area to about 50° over a very large portion of the Continent, and to below 50° at most of our own stations and in some places on the Continent. Maxima during day below 60° at almost all stations in this country, but above 70° in central Europe and also at St. Petersburg, and above 80° at various southern stations. Thermometer reaching 99° at Cape de Garde, and 104° at Tunis.

Wind in morning light to fresh from the Northward over these Islands and the north of France, and light or moderate from the Southward over the Baltic, Sweden, and Finland. A cyclonic circulation of varying force prevailing in the south-west of our area, and gales between South and West in Iceland. Not much change during day; backing towards West on our extreme northern coast.

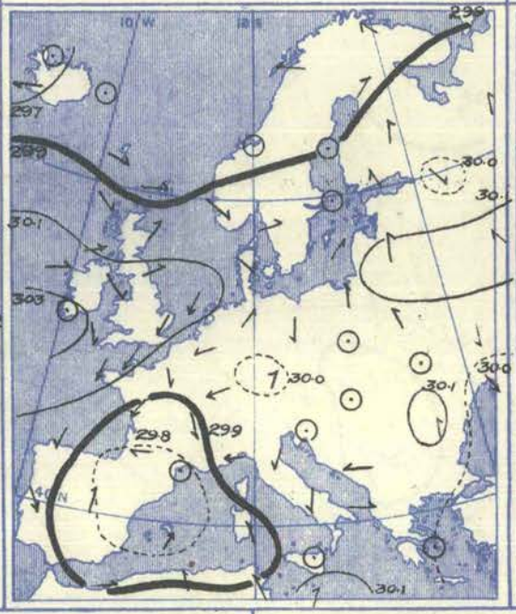
Barometer in morning above 30·2 ins. in the north-east of Russia, and also on the Atlantic off the west of these Islands. Below 29·7 ins. in three depressions—one over the North Sea, another over and to the northward of Iceland, and a third over Spain. North Sea system remaining stationary but becoming less deep during day, that in the far north travelling eastwards, and that in the south undergoing considerable modification in form.

Thursday, 9th September, 1909.

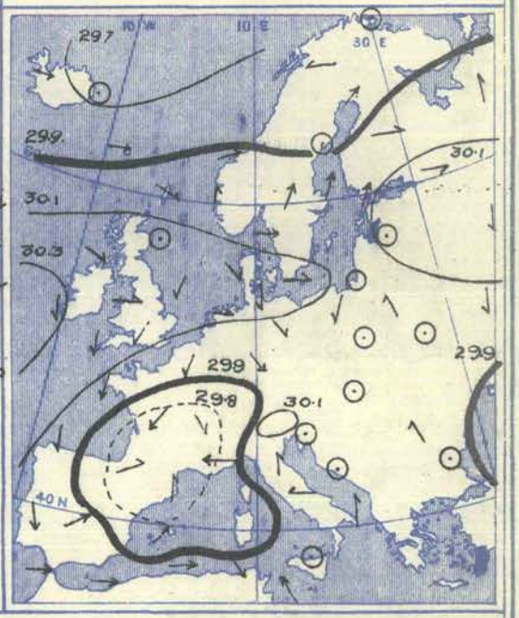
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast in most parts of France and these Islands, with rain in places. Variable elsewhere, but generally fair to fine and bright. A thunderstorm occurring at Tunis. Small amounts of rain later in some parts of this country and the north of Europe, and heavy amounts in France and the adjacent portions of Spain and Italy. More than an inch at several French stations, and more than 3·5 ins. at Limoges. Thunderstorms experienced in the centre and south-east of France.

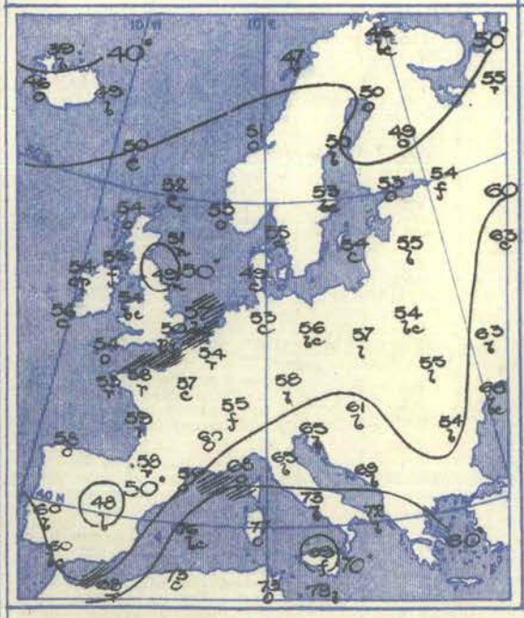
Temperature changed rather irregularly. Readings in morning ranging from below 50° in most parts of this country and in the west of Norway to above 60° over the major portion of Russia and southern Europe, and to above 70° on some shores of the Mediterranean; highest values, 81° at Cape de Garde and 84° at Tunis. Maxima during day about 60° in these Islands, most of France, and in Belgium, rather above 70° in Germany and Austria, and above 80° at a few places in the south of our area. Maximum 104° at Tunis.

Wind in morning mainly from West or North-West in the north of these Islands, and light in force; light to fresh from the Northward in England. An extensive cyclonic circulation prevailing over the south-west of our area, and light anticyclonic breezes in the central and eastern countries. Increasing to a fresh to high wind on our south-east and south coasts later, and also in the north of France. Increasing to a strong breeze on the coast of Algeria.

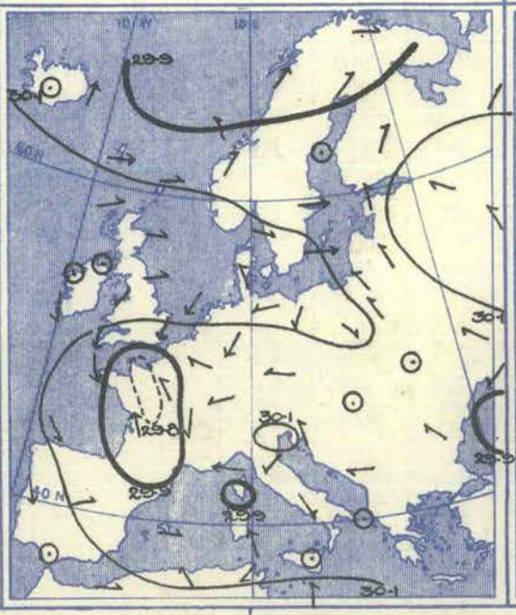
Barometer in morning above 30·3 ins. in the south-west of Ireland and over the adjacent portion of the ocean, and relatively high over most of Russia. Below 29·8 ins. in a depression covering a considerable part of Spain, and also in the far north beyond Norway and Iceland. Spanish depression moving northwards to France during day, and barometer beginning to fall in the south and south-east of England. Little change in the general distribution of pressure.

Friday, 10th September, 1909.

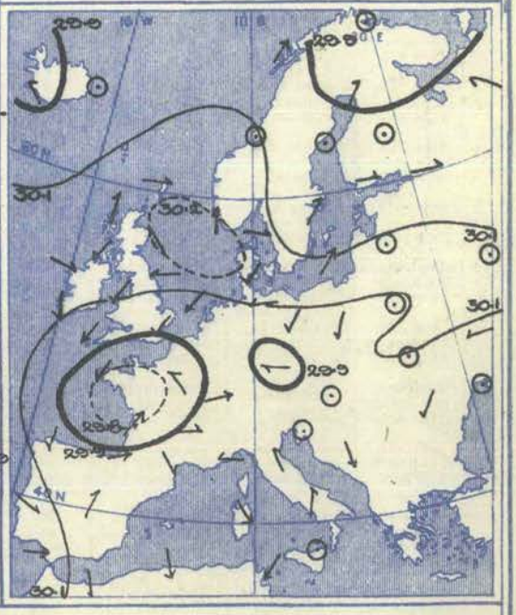
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull, with rain in many places, over the south of England, Belgium, and France, and rainy at some stations in the extreme north of our area. Generally fair or fine elsewhere, but showery at Blacksod Point and rainy at Nemours and Sfax. Heavy rain later in France and at some places in the extreme south of England; more than 1·5 ins. at several French stations, and more than an inch at Portland Bill. Rather heavy rain at Lugano and Geneva, and 0·9 in. at Archangel.

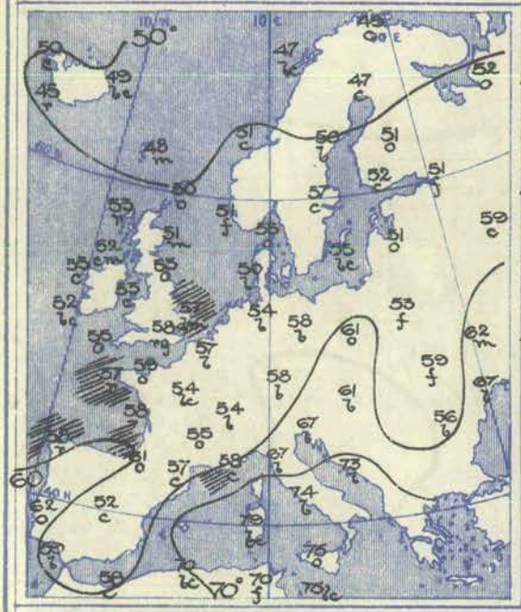
Temperature risen in various parts of these Islands and France. Morning readings ranging from above 70° over a considerable portion of the Mediterranean, and nearly 70° in the south of Russia to below 60° generally, and to below 50° in the north-east of Great Britain and at some stations in the north of the Continent. Maxima during day below 60° over a large portion of this country, but above 70° at most stations over the southern half of the Continent, and above 80° at various places in the Mediterranean region.

Wind in morning showing a cyclonic circulation over France, the Northerly to North-Easterly current blowing very strongly or with the force of a high wind over the south-east and south of England, the Channel, and on the north-west coast of France. Westerly winds prevailing in the north of these Islands, and a strong South-Westerly wind on the coast of Norway. Little change as a whole during day; becoming South:rly in Scotland and light from South on the west coast of Norway.

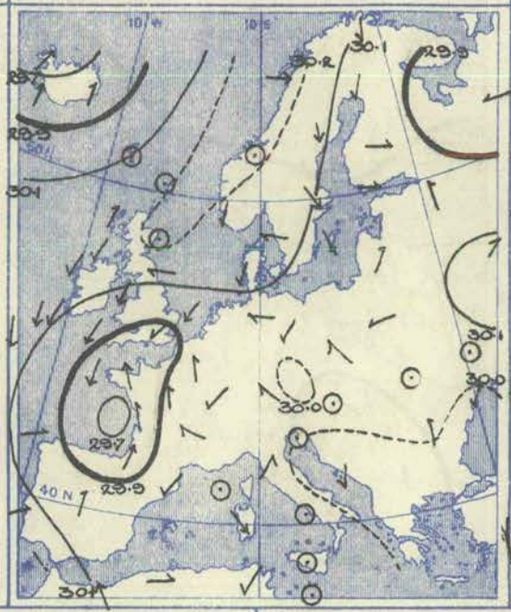
Barometer in morning relatively high in a wide belt extending from the Atlantic across Ireland, the North Sea, the Baltic, and Russia. Below 29·8 ins. in a minimum over the north-west of France and in a secondary over the western part of the Mediterranean, and below 29·9 ins. both in the far south-east and north of our area. Little change occurring during day within the French depression, but a decrease of pressure taking place over central Europe and also in the west of Iceland.

Saturday, 11th September, 1909.

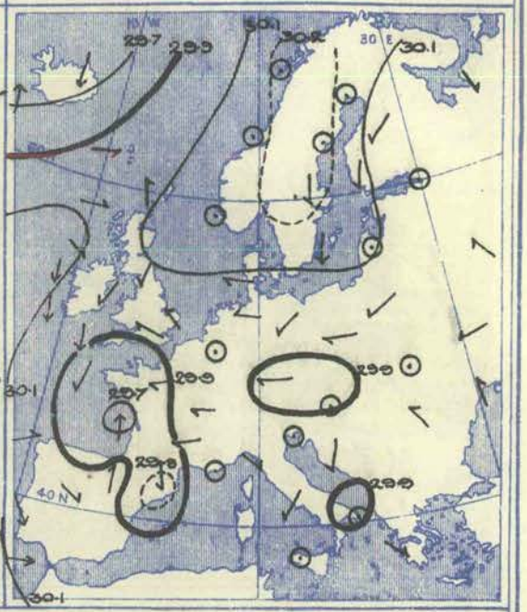
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



6 p.m.



Weather in morning rainy in the south-east of England and in the north-west and west of France, and also at Corunna and in the Hebrides, and cloudy or dull in several other regions, but fair to very fine at most places in the north and south of the Continent. A thunderstorm in progress at Tunis. A little rain later in some parts of these Islands, and larger amounts at several French stations. Thunder and lightning at Paris, and also in the south of France.

Temperature risen in the south of England, but continuing low for the time of year generally. Readings in morning below 50° in the extreme north of our area, and no higher than 50° at some of our own stations; below 60° over the major portion of the Continent, and above 70° over much of the Mediterranean region. Maxima during day not much above 60° in any part of this country, but about 70° over the central regions of the Continent, and above 80° at many southern stations.

Wind in morning showing a complete cyclonic circulation over France, England, and the Bay of Biscay; North-Easterly current strong to high on our south-east and south coasts, and that from South strong on the west coast of France. Light and rather variable airs prevailing over the greater part of the Continent, but a strong breeze from North-West in the south of Sweden. Wind decreasing considerably in force by evening on our own and the French coasts, but blowing strongly in the south of Spain.

Barometer in morning 30·1 ins. to above 30·2 ins. in an anticyclonic band extending from the Atlantic to the north of Norway; below 29·7 ins. in a depression centred over the Bay of Biscay, and also in another system over Iceland. Relatively low over the White Sea and its neighbourhood. Very little modification occurring during day in the general distribution of pressure, but barometer falling somewhat over the greater part of these Islands and in the Icelandic region.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Sept. 6th, 10.30 a.m. to 10.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	290·5° 95% 200°, 5	289·5° 95% 200°, 12	288° 100% 220°, 15					287·5° 100% 230°, 16	700	Raining. Clear by 11.30 p.m. Squally, with showers in the afternoon. Clouds at 600 m.
2	Sept. 6th, 10.37 a.m. to 11.54 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 93% 270°, 9	286° 93% 274°. 11	285° 92% 275°, 12	281° 92% 277°, 18	277° 90% 276°, 20			276° 79% 270°, 21	1,800	Fair, with heavy rain at intervals. Fresh breeze. Clouds, Cu. and Cu.-Ni. 9.
3	Sept. 7th, 9.55 a.m. to 10.47 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	286° 70% 270°, 9	285° 75% 270°, 14	283·5° 85% 280°, 15	281° 100% 290°, 18				279·5° 100% 295°, 19	1,250	Clear morning. Raining by 12.30 p.m. Clouds at various heights above 1,000 m.
4	Sept. 7th, 11.45 a.m. to 1.28 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	280° 96% 326°, 6	279° 96% 325°, 11	278° 97% 324°, 15	276° 97% 328°, 16	271·5° 99% 344°, 16			271° 100% 345°, 16	1,660	Dull and wet. Fair later. Moderate breeze. Clouds, Ni. 10. Freezing above 1,300 m.
5	Sept. 8th, 10.6 a.m. to 11.50 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281° 90% 18°, 8	280° 92% 19°, 12	279° 94% 20°, 15	274° 98% 22°, 14	273° 98% 28°, 15			273° 100% 30°, 15	1,800	Fair. Moderate breeze. Clouds, Cu. 9. Freezing above 1,500 m.
6	Sept. 9th, 9.56 a.m. to 11.35 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	286° 80% 360°, 6	285° 80% 360°, 8	281° 80% 10°, 10	281° 80% 20°, 11				281° 80% 25°, 11	1,800	Fine. Cumulus not reached.
7	Sept. 9th, 10.0 a.m. to 11.50 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	288° 75% 45°, 7	287° 80% 45°, 9	284° 85% 60°, 11	281° 85% 60°, 11				279° 85% 60°, 11	1,200	Lowest cumulus 1,000 m. At 110 a.m. squall passed at the surface, accompanied by a decrease of wind at 1,000 metres.
8	Sept. 9th, 12.35 p.m. to 1.52 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 80% 298°, 8	282° 82% 290°, 9	281° 84% 285°, 10	277° 94% 265°, 13				276·5° 97% 263°, 13	1,100	Fine. Light breeze. Clouds, Cu. 10 to 6. Hazy. Two kites put close together.
9	Sept. 10th, 10.42 a.m. to 12.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind .. .	285° 80% 90°, 6	284° 83% 90°, 13	283° 84% 90°, 16	276° 95% 80°, 14	281·5° 45% 75°, 14			280° 43% 75°, 15	1,850	Fine. Moderate breeze, very variable in direction and velocity. Clouds, Cu. 7 to 10. Large temp. inversion and fall in humidity. Whirlwinds about 10 a.m. Wind steady above the inversion.
10	Sept. 11th, 12.53 p.m to 2.17 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 98% 45°, 6	282° 100% 65°, 15	281·5° 100% 70°, 17	279° 100% 60°, 16	279° 100% 68°, 16			277·5° 100% 70°, 16	1,700	Overcast and dull, with a little rain. Fine up to noon, with high wind. Clouds, Ni. 10. Slight temp. inversion at 1,200 m.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10
No. of Kites or Balloons	1	1	1	1	1	2	1	2	1	1
Area of Surface (sq. metres) ..	4	7·5	4	7·6	7·6	15	70	15·1	7·6	7·6
Length of Wire (metres)	800	2,600	1,800	2,350	2 650	1,850	2,000	1,500	2,700	2,500

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) No. 37. THIRTY-SEVENTH WEEK, SUNDAY SEPTEMBER 12TH TO SATURDAY SEPTEMBER 18TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather during this week was not so unsettled as it had been in the immediately preceding weeks. Slight rain was, however, frequent over the eastern half of England, and over England as a whole there was much cloud. A thunderstorm was experienced over a considerable portion of the Thames Valley and south Midlands on Friday afternoon; in some places the storm was very severe and the rain exceptionally heavy.

Temperature was again below the average, the deficit being more than 3½° in Scotland E., England N.W., and Ireland S. The highest of the maxima occurred at most stations late in the week, and ranged from 71° in England S.E., 70° in the English Channel, and 69° in several other districts to 66° in Scotland N. The lowest of the minima were recorded generally during the earlier half of the period. In Scotland E., the thermometer fell to 26° at Balmoral on the 16th., in Ireland N. to 30°, in Scotland W. to 31°, and in Scotland N., Ireland S., and England N.W. to 32°. In England E. the lowest reading was 39°, and in the English Channel 49°. The lowest grass readings reported were 24° at Crathes, 25° at Balmoral, West Linton and Manchester, 26° at Southport and 27° at Markree Castle, Armagh and Burnley.

Mean Temperature of the Sea.—On most parts of the coast the water was warmer than during the corresponding week of last year. The actual means for the week ranged from 60° at Newquay and about 59½° at Plymouth, the Shipwash Lightship and Margate to 52° at Burnmouth and Wick, and to 51° at Lerwick.

Rainfall exceeded the normal in England S.E. and E., but was less in all other districts. In the western districts the total fall was less than 0·1 inch. During the thunderstorm on Friday as much as 1·41 inch of rain fell at Wisley, and 1·02 inch at Oxford. At the latter station 0·8 inch was registered within 15 minutes.

Bright Sunshine was very prevalent for the time of year in Ireland and Scotland, but elsewhere it was generally very deficient. The percentage of the possible duration ranged from 57 in Scotland N., 53 in Ireland N., and 46 in Ireland S. to 27 in England E., 17 in England N.E., and to 13 in the Midland Counties.

Barometer and Wind.—The general distribution of pressure over this country was anticyclonic, the central portion of the high pressure system at first extending from the Atlantic to Scotland and afterwards moving directly across these islands to Scandinavia, Finland and northern Russia, whence a band stretched south-westward to the north and north-west of these islands. The south of England, however, was affected more or less by a shallow depression over France and the Channel. The general direction of the wind was from some point between North-West and North-East, but in the far north-west and north it was more often from the South-Eastward or Southward. A fresh breeze was experienced on some parts of our east coast, but generally there was little movement.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 300.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient
	Rainfall ...	Light	Light	Moderate	Heavy	Moderate	Moderate	Light	Light	Light	Very light	Light	Moderate
	Sunshine ...	Very abundant	Abundant	Very scanty	Scanty	Very Scanty	Scanty	Moderate	Moderate	Moderate	Very abundant	Abundant	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 2 weeks from Sept. 5th, 1909.	Warmth ...	0 * 2	0 * 2	0 * 2	0 * 1	0 * 1	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2	0 * 1
	Rainfall ...	0 * 1	1 * 1	0 * 0	1 * 0	0 * 0	1 * 0	0 * 1	0 * 1	0 * 1	0 * 1	0 * 2	1 * 0
	Sunshine ...	1 * 0	1 * 0	0 * 1	0 * 1	0 * 1	0 * 1	1 * 0	0 * 0	0 * 0	1 * 0	1 * 0	0 * 1

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

8120 450 Wy. & S. Ltd. 9—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-SEVENTH WEEK—September 12th to September 18th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	66	32	58·7	42·8	50·4	- 2·2	59	- 15	0	0	2	- 2	0·16	-0·75	52	+ 26	57	+29
Eastern																		
1. SCOTLAND, EAST	69	26	59·3	40·5	49·4	- 3·8	58	- 22	4	+ 3	1	- 2	0·16	-0·28	40	+ 10	44	+11
2. ENGLAND, N.E.	68	33	58·8	47·3	52·7	- 2·3	75	- 17	0	0	3	0	0·40	-0·06	16	- 18	17	-20
3. ENGLAND, EAST	68	39	61·8	50·2	55·7	- 1·1	96	- 8	0	0	4	+ 2	0·59	+0·20	24	- 12	27	-14
4. MIDLAND COUNTIES	67	37	59·6	47·7	53·4	- 2·3	80	- 16	0	0	4	+ 2	0·34	-0·06	12	- 21	13	-23
5. ENGLAND, S.E.	71	38	62·3	50·6	56·2	- 1·8	99	- 13	0	0	4	+ 2	0·49	+0·05	25	- 13	29	-14
Western																		
6. SCOTLAND, WEST	67	31	60·9	44·3	52·2	- 1·6	71	- 14	0	0	1	- 3	0·08	-0·70	34	+ 3	38	+ 3
7. ENGLAND, N.W.	69	32	59·9	44·9	52·1	- 3·6	71	- 25	0	0	1	- 2	0·04	-0·53	30	- 2	34	- 2
8. ENGLAND, S.W.	69	36	60·8	48·5	54·4	- 2·5	87	- 17	0	0	1	- 1	0·06	-0·51	38	+ 2	43	+ 3
9. IRELAND, NORTH	67	30	60·1	43·5	51·4	- 3·3	66	- 23	0	0	1	- 2	0·02	-0·59	48	+ 20	53	+22
10. IRELAND, SOUTH	69	32	61·5	44·0	52·3	- 3·6	72	- 25	0	0	1	- 2	0·05	-0·55	41	+ 8	46	+ 9
11. ENGLISH CHANNEL	70	49	62·5	53·8	57·9	- 1·7	111	- 12	0	0	3	0	0·21	-0·27	34	- 12	39	-13

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 2 Weeks, September 5th to September 18th, 1909.

0. SCOTLAND, NORTH	68	32	*	*	*	*	122	- 31	0	0	8	- 1	1·26	-0·64	79	+ 28	43	+15
Eastern																		
1. SCOTLAND, EAST	70	26	*	*	*	*	120	- 46	4	+ 3	6	- 1	0·90	-0·06	72	+ 11	39	+ 6
2. ENGLAND, N.E...	69	33	*	*	*	*	146	- 44	0	0	8	+ 2	0·89	-0·17	49	- 18	27	-10
3. ENGLAND, EAST	70	39	*	*	*	*	179	- 35	0	0	9	+ 4	1·09	+0·22	62	- 12	34	- 7
4. MIDLAND COUNTIES.. ..	71	34	*	*	*	*	154	- 44	0	0	9	+ 4	0·75	-0·16	45	- 21	25	-11
5. ENGLAND, S.E.	71	33	*	*	*	*	191	- 39	0	0	10	+ 5	1·37	+0·36	69	- 8	38	- 4
Western																		
6. SCOTLAND, WEST	68	31	*	*	*	*	142	- 33	0	0	5	- 2	0·92	-0·80	74	+ 10	40	+ 5
7. ENGLAND, N.W...	69	32	*	*	*	*	143	- 53	0	0	4	- 2	0·78	-0·49	63	- 2	34	- 1
8. ENGLAND, S.W...	69	30	*	*	*	*	168	- 44	0	0	7	+ 1	0·66	-0·62	73	0	40	0
9. IRELAND, NORTH	67	30	*	*	*	*	141	- 41	0	0	7	- 1	1·00	-0·39	74	+ 18	40	+10
10. IRELAND, SOUTH	69	32	*	*	*	*	159	- 39	0	0	6	- 1	0·38	-0·93	78	+ 12	43	+ 7
11. ENGLISH CHANNEL	70	49	*	*	*	*	229	- 21	0	0	9	+ 3	0·94	-0·10	77	- 14	43	- 8

THE YEAR.—Aggregates, &c., for the Period of 37 Weeks, January 3rd to September 18th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1550	-157	535	- 22	172	+ 3	26·82	-6·49	960	+ 25	27	+ 1
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	1715	-221	677	+ 56	143	+ 3	22·36	+1·83	1091	- 22	31	- 1
2. ENGLAND, N.E.	85	14	*	*	*	*	2069	- 71	580	+105	130	+ 4	18·89	+2·37	1164	- 38	34	- 1
3. ENGLAND, EAST	85	12	*	*	*	*	2276	-198	554	+ 33	132	+11	16·37	+0·59	1361	+ 60	40	+ 2
4. MIDLAND COUNTIES.. ..	86	8	*	*	*	*	2249	-185	642	+109	124	+ 4	17·75	+0·08	1214	+ 50	36	+ 1
5. ENGLAND, S.E...	86	9	*	*	*	*	2372	-277	482	+101	123	+ 8	18·74	+1·62	1451	+131	43	+ 4
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	1923	-155	445	+ 20	139	- 8	29·92	-0·65	1201	+ 55	35	+ 2
7. ENGLAND, N.W.	82	10	*	*	*	*	2067	-196	466	+ 80	133	- 1	22·35	-0·13	1264	+103	37	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2280	-224	390	+ 89	131	0	21·00	-2·93	1405	+115	41	+ 3
9 IRELAND, NORTH	78	14	*	*	*	*	2058	-111	315	- 30	162	+ 2	22·75	-2·50	1038	- 9	30	0
10. IRELAND, SOUTH	81	15	*	*	*	*	2402	- 82	265	+ 6	145	+ 3	21·41	-5·08	1203	+ 50	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	2789	- 47	151	+ 42	120	-19	16·81	-2·91	1664	+ 97	49	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked Ⓜ is supplied by the Royal Meteorological Society, and that for Stations marked Ⓢ is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Temperature (in Degrees Fahrenheit) and Rainfall.

Districts.	Names of Stations.		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week: Of Highest each day.	Mean for the Week: Of Lowest each day.	Mean for the Week: For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees): Above 42°	Accumulated Heat for the Week (in Day degrees): Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.
			°		°		°	°	°	°	Day °	Day °		Ins.	Ins.
0. SCOTLAND, N. a, Islands.	*p Balta Sound*	S	*60*	*18th*	*38*	*14th*	*55·1*	*45·3*	*50·0*	—	*56*	*0*	*2*	*0·05*	—
	a Sumburgh Head ..	..	58	17th	39	14th	55·1	45·1	49·9	– 0·9	55	0	1	0·03	– 0·73
	a Stornoway ..	..	62	17th	38	14th	58·9	44·7	51·5	– 0·5	67	0	3	0·34	– 0·67
	a Castlebay, Barra Isd.		*59*	*17th*	*44*	*14th*	*56·6*	*49·4*	*52·8*	*– 0·2*	*76*	*0*	*1*	*0·45*	—
b, Mainland.	a Wick ..	..	62	18th	32	14th	56·6	42·3	49·1	– 3·0	50	0	1	0·04	– 0·56
	p Strathpeffer ..	..	66	18th	37	13, 14, 16th	60·7	41·7	50·7	– 1·6	62	1	2	0·10	– 0·47
	p Glencarron ..	𝔖	66	17th	35	14th	60·1	40·7	49·9	– 1·2	61	4	1	0·23	– 1·69
	p Fort Augustus	𝔖													
	p Fort William	𝔖	66	17th	33	14th	60·8	42·0	51·0	– 2·4	63	0	2	0·23	– 1·42
1. SCOTLAND, E. ..	p Gordon Castle	𝔖	69	18th	35	13th	62·5	41·6	51·6	– 1·9	69	1	1	0·19	– 0·41
	a Nairn	..	68	17th, 18th	31	14th	62·1	37·7	49·3	– 3·8	69	12	1	0·07	– 0·43
	a Aberdeen ..	..	59	16th, 18th	37	15th	56·9	43·4	49·8	– 3·4	55	0	3	0·25	– 0·32
	a Balmoral ..	𝔖	62	15th	26	16th	58·4	35·6	46·5	– 3·4	58	18	1	0·13	– 0·53
	p Crieff	𝔖	63	14th, 17th	35	15th	60·6	42·5	51·1	– 2·8	64	0	2	0·31	– 0·44
	a Leith	..	64	17th	35	15th, 16th	58·4	41·9	49·8	– 5·2	55	0	1	0·13	– 0·31
	a West Linton ..	S	62	17th, 18th	27	15th	57·5	37·6	47·1	– 5·0	54	12	1	0·12	—
	p Marchmont ..	𝔖	63	17th	38	15th, 16th	57·6	43·4	50·2	– 2·3	57	0	1	0·04	– 0·59
2. ENGLAND, N.E. a, North.	a Alnwick Castle	..	60	18th	33	15th	56·6	43·5	49·7	– 3·9	54	0	2	0·32	– 0·24
	a Shields ..	..	59	17th	38	15th	56·4	45·6	50·7	– 3·9	61	0	4	0·37	– 0·37
	p Durham ..	..	62	17th	39	15th, 16th	57·0	45·1	50·8	– 3·6	62	0	3	0·32	– 0·13
	p Rounton ..	𝔐	66	17th	36	16th	58·2	44·2	50·9	– 3·1	62	0	2	0·51	+ 0·08
	p Scarborough ..	M	62	15th	50	16th	57·6	51·9	54·6	– 1·0	88	0	3	0·51	+ 0·05
	p York	..	63	17th	41	16th	60·1	46·1	52·8	– 3·0	76	0	3	0·08	– 0·34
b, South.	a Spurn Head ..	..	61	12, 15, 18th	47	14th	59·3	52·1	55·5	– 1·3	95	0	4	0·53	+ 0·18
	a Lincoln ..	..	65	12th	41	14th	60·9	49·0	54·7	– 1·7	89	0	5	0·53	+ 0·11
	a Fulbeck ..	..	68	12th	41	14th	62·9	47·8	55·0	– 1·4	91	0	4	0·71	+ 0·28
3. ENGLAND, E. a, North.	p Cromer ..	..													
	p Hillington ..	𝔐	66	12th	44	12th	61·7	49·7	55·4	– 0·9	94	0	4	0·47	– 0·10
	a Yarmouth ..	..	65	12th	49	12th	60·7	53·3	56·8	– 0·2	104	0	4	0·76	+ 0·29
	a Norwich ..	..													
	p Geldeston ..	..	66	12th	46	12th	61·2	49·9	55·3	– 1·3	93	0	5	1·07	+ 0·59
b, South.	p Cambridge ..	..	68	17th	47	12th	62·8	49·9	56·0	– 1·3	98	0	3	0·39	– 0·04
	a Felixstowe ..	..	*67*	*12th*	*48*	*15th*	*61·4*	*51·9*	*56·4*	*– 1·3*	*101*	*0*	*3*	*0·59*	—
	a Clacton-on-Sea	..	65	12th	48	15th	61·3	52·6	56·7	– 0·8	103	0	3	0·69	—
	a Rothamsted	..	66	17th	45	15th	59·9	49·4	54·4	– 1·4	87	0	4	0·31	– 0·19
	a Shoeburyness	..	*65*	*12th*	*47*	*15th*	*62·1*	*52·1*	*56·9*	*– 2·1*	*104*	*0*	*5*	*0·57*	*+ 0·15*
	p Tottenham ..	..	68	17th	39	15th	65·2	46·9	55·6	– 2·0	95	0	4	0·43	—
4. MIDLAND COUNTIES. a, East.	a Harrogate ..	..	62	17th	42	14th, 16th	57·9	46·0	51·7	– 2·4	68	0	3	0·22	– 0·36
	a Bawtry ..	..	64	15th	42	14th, 16th	60·4	48·0	53·9	– 1·6	83	0	4	0·26	– 0·13
	p Buxton ..	M	*60*	*12th, 17th*	*37*	*14th*	*56·1*	*44·0*	*49·8*	*– 2·8*	*55*	*0*	*2*	*0·06*	*– 0·81*
	a Nottingham	..	65	12th	44	14th	60·7	49·7	54·9	– 1·0	90	0	6	0·34	– 0·12
	p Birmingham, Edgbsn		63	12th	45	14th	58·0	48·9	53·2	– 2·6	78	0	5	0·24	– 0·24
	a Raunds ..	𝔐	66	12th	45	12th	61·5	48·6	54·7	– 1·3	89	0	5	0·49	—
	a Oxford ..	..	67	17th	47	15th	60·9	49·6	55·0	– 1·7	91	0	5	1·37	+ 0·94
b, West.	a Cheadle ..	𝔐	62	12th	41	14th	58·0	45·2	51·3	– 2·9	65	0	3	0·26	– 0·36
	p Shrewsbury ..	..	63	17th, 18th	37	14th, 15th	59·6	44·3	51·6	– 4·6	67	0	2	0·04	—
	a Hereford ..	𝔐	61	12, 17, 18th	46	14th, 15th	59·4	48·7	53·8	– 2·2	83	0	2	0·11	– 0·35
	a Cirencester ..	..	64	17th	46	14, 15, 16, 17	58·8	47·7	53·0	– 2·0	77	0	5	0·35	– 0·21
	a Bath	..	65	12th	46	16th, 18th	60·1	48·1	53·8	– 3·3	83	0	2	0·10	– 0·46
5. ENGLAND, S.E... ..	p Kew	..	66	17th	45	15th	61·3	50·8	55·8	– 1·0	97	0	3	0·33	– 0·16
	a Marlborough	..	66	18th	41	12th, 16th	62·0	45·4	53·3	– 1·5	79	0	5	0·50	– 0·04
	a Margate ..	..	66	17th	53	13th, 15th	63·3	54·7	58·8	+ 0·1	118	0	4	0·53	+ 0·07
	a Wisley, Surrey	..	67	17th	43	15th	61·2	49·4	55·0	– 2·6	91	0	4	1·78	—
	a Swarraton ..	𝔐	67	17th	38	15th	60·9	48·1	54·2	– 1·5	85	0	4	0·22	– 0·33
	a Tunbridge Wells	𝔐	71	17th	43	15th	62·5	49·9	55·9	– 0·7	97	0	4	0·45	– 0·09
	a Dungeness ..	..	66	12th	48	15th	63·1	54·0	58·3	– 0·4	114	0	4	0·45	– 0·04
	p Hastings ..	..	68	12th, 17th	47	15th	63·2	52·0	57·3	– 1·2	107	0	5	0·20	– 0·41
	p Southampton	..	69	12th, 17th	43	15th	62·9	50·0	56·1	– 2·6	99	0	4	0·22	– 0·32
	a Ventnor ..	..	69	12th	46	15th	62·5	51·9	57·0	– 2·7	105	0	2	0·25	– 0·35
LONDON .. – ..	*a Westminster*	..	*67*	*17th*	*48*	*15th*	*62·1*	*52·4*	*57·0*	*– 0·6*	*105*	*0*	*4*	*0·39*	*– 0·06*
	a Greenwich ..	..	*69*	*17th*	*44*	*15th*	*62·9*	*51·1*	*56·7*	*– 1·5*	*103*	*0*	*4*	*0·58*	*+ 0·13*
6. a, SCOTLAND. W. ..	p Laudale ..	..	67	18th	40	13th	62·6	46·3	54·1	+ 0·2	85	0	1	0·38	– 1·26
	a Poltalloch ..	𝔖	63	17th	33	15th	60·3	42·0	50·7	– 3·7	61	0	1	0·22	– 0·91
	p Glasgow ..	..	63	18th	37	15th	59·2	45·0	51·8	– 1·6	69	0	0	0·00	– 0·77
	p Rothesay ..	𝔖	65	17th	39	14th, 15th	62·9	44·6	53·3	– 0·9	79	0	1	0·03	– 0·99
	a Kilmarnock ..	..	67	17th	35	16th	61·7	42·4	51·6	– 2·0	67	0	0	0·00	—
	a Colmonell ..	𝔖	65	17th, 18th	31	14th	63·1	43·1	52·6	– 2·1	74	0	1	0·01	– 0·92
	p Dumfries ..	𝔖	66	18th	37	15th	60·0	43·9	51·6	– 3·2	67	0	1	0·02	– 0·70
	p Cally, Gatehouse	𝔖	66	17th	33	14th	59·8	42·3	50·6	– 2·4	60	0	1	0·02	– 0·91
b, ISLE OF MAN ..	p Douglas ..	..	61	18th	43	14th	58·2	49·3	53·5	– 0·9	81	0	0	0·00	– 0·90
7. a, ENGLAND, N.W...	p Aspatria ..	..	69	17th	35	15th	61·1	42·2	51·2	– 2·7	64	0	1	0·01	– 0·87
	p Newton Rigg	..	66	18th	32	14th, 15th	59·3	39·8	49·1	– 3·3	59	6	1	0·02	– 0·66
	p Stonyhurst ..	..	61	17th	41	14th, 16th	58·6	45·9	52·0	– 2·5	70	0	1	0·08	– 0·92
	p Blackpool ..	M	64	18th	35	14th	60·5	43·5	51·6	– 4·2	67	0	1	0·01	– 0·73
	p M'nch'ster, Prestwich		63	12th	41	14th, 15th	59·5	45·2	52·0	– 2·8	70	0	1	0·02	– 0·78
	a Liverpool (Bidston)		63	17th, 18th	41	14th	59·7	47·1	53·1	– 2·5	78	0	1	0·02	– 0·60
	a Hawarden Bridge ..		65	17th	39	14th	60·7	46·1	53·1	– 3·7	78	0	2	0·07	– 0·39
b, NORTH WALES ..	p Llandudno ..	M	66	17th	40	14th, 15th	59·2	47·4	53·0	– 3·8	77	0	1	0·06	– 0·49
	a Holyhead ..	..	64	17th, 18th	43	15th, 16th	59·7	47·9	53·5	– 3·0	81	0	0	0·00	– 0·65
	p Bettws-y-Coed	..	68	17th	35	14th	60·4	44·3	52·0	– 4·1	70	0	2	0·11	—
8. a, SOUTH WALES ..	a Llangammarch Wells		66	18th	36	15th	59·7	44·5	51·7	– 2·4	68	0	1	0·03	—
	a Pembroke ..	..	63	12th	44	15th	60·7	48·1	54·1	– 2·7	85	0	1	0·01	– 0·67
	a Cardiff ..	..	62	12th	45	14th, 15th	59·8	48·8	54·0	– 2·6	84	0	0	0·00	– 0·84
b, ENGLAND, S.W. ..	a Clifton ..	..	61	15th	47	16th	58·6	49·5	53·8	– 3·8	83	0	1	0·03	– 0·60
	a Shaftesbury ..	𝔐	66	12th	45	15th	58·9	48·9	53·7	– 2·3	82	0	3	0·15	– 0·49
	a Arlington ..	..	66	18th	44	15, 17, 18th	61·4	46·9	53·8	– 1·6	83	0	2	0·06	– 1·01
	a Cullompton ..	𝔐	69	12th	41	15th	63·0	47·9	55·1	– 1·3	92	0	2	0·03	– 0·57
	a Portland Bill	..	66	12th	50	15th	60·7	52·6	56·5	– 2·2	102	0	3	0·25	—
	p Plymouth ..	..	68	12th	44	15th	64·5	48·4	56·1	– 1·7	99	0	1	0·05	– 0·58
	p Falmouth ..	..	65	12th	47	15, 16, 17th	61·1	49·7	55·1	– 2·6	92	0	0	0·00	– 0·78
9. IRELAND, N. a, West.	a Malin Head ..	..	66	18th	45	14, 15, 16, 17	59·7	47·3	53·2	– 1·6	78	0	2	0·03	– 0·69
	a Blacksod Point	..	64	18th	41	14th	59·6	47·9	53·5	– 1·4	81	0	1	0·01	– 0·96
	p Markree Castle	..	64	17th	30	15th	61·0	39·5	49·7	– 4·2	64	7	0	0·00	– 0·86
b, East.	a Birr Castle ..	..	66	17th, 18th	33	14th, 15th	61·6	39·7	50·1	– 4·5	66	6	2	0·06	– 0·54
	p Armagh ..	..	67	18th	33	15th	60·4	40·2	49·8	– 4·3	62	5	0	0·00	– 0·65
	a Donaghadee ..	..	61	17th, 18th	40	15th	58·4	46·4	52·1	– 3·0	71	0	1	0·01	– 0·64
10. IRELAND, S. a, East.	p Dublin, City ..	..	63	18th	41	14th, 18th	59·5	44·9	51·9	– 4·3	69	0	0	0·00	– 0·52
	a Kilkenny ..	..	67	18th	33	15th	61·6	40·0	50·3	– 4·9	67	6	0	0·00	– 0·60
	a Waterford ..	..	65	17th, 18th	35	15th	62·9	43·0	52·5	– 3·3	74	0	0	0·00	– 0·70
b, West.	a Birr Castle ..	..	66	17th, 18th	33	14th, 15th	61·6	39·7	50·1	– 4·5	66	6	2	0·06	– 0·54
	a Foynes ..	..	64	17th	39	14th, 15th	60·8	45·8	52·9	– 2·9	76	0	1	0·01	– 0·69
	a Cahir	𝔐	64	17th	32	15th	61·2	41·6	50·9	– 4·4	64	1	0	0·00	—
	a Killarney ..	..	69	18th	36	14th	63·7	46·4	54·6	– 1·0	88	0	1	0·22	– 0·70
	a Valencia ..	..	65	17th	38	15th	61·4	47·3	54·0	– 2·7	84	0	3	0·08	– 0·92
	a Roche's Point	..	63	12th, 13th	44	14th	60·6	47·6	53·8	– 2·9	83	0	1	0·04	– 0·67
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..		63	18th	52	16th	59·9	53·7	56·7	– 2·1	103	0	1	0·03	– 0·57
	a Jersey, St. Aubins ..		70	12th	49	17th	64·3	53·3	58·5	– 2·2	116	0	4	0·18	– 0·44
	a Guernsey ..	..	68	12th	53	15, 16, 17th	63·2	54·3	58·5	– 1·5	116	0	5	0·41	– 0·29

Bright Sunshine.

Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
Hrs.	Hrs.	%	%	
40·3	—	*44*	—	*Balta Sound.*
49·6	+23·9	55	+26	Deerness.
54·1	+27·0	60	+30	Stornoway.
52·4	—	*58*	—	*Castlebay.*
*	*	*	*	* *
51·1	+23·9	56	+26	Strathpeffer.
*	*	*	*	* *
*	*	*	*	Fort Augustus.
				* *
54·9	—	*60*	—	*Gordon Castle.*
54·4	—	60	—	Nairn.
38·6	+ 9·1	42	+10	Aberdeen.
41·6	—	46	—	Crathes S.
40·4	—	45	—	Balruddery
33·5	+ 8·7	37	+10	Edinburgh.
43·0	—	*48*	—	*West Linton.*
28·8	+ 0·5	32	+ 1	Marchmont.
16·9	—	19	—	Cockle Park.
7·4	*–16·8*	*8*	*–19*	*Newcastle.*
15·8	–12·5	18	–14	Durham.
*	*	*	*	* *
6·7	—	7	—	Scarborough.
12·2	–16·5	14	–18	York.
*	*	*	*	* *
26·0	—	29	—	Skegness.
15·9	—	18	—	Rauceby.
33·0	—	*37*	—	*Lowestoft.*
	—		—	Cromer.
27·4	– 6·0	30	– 7	Hillington.
29·4	—	33	—	Yarmouth.
*	*	*	*	* *
30·2	– 7·0	34	– 8	Geldeston.
17·2	–18·8	19	–21	Cambridge.
29·2	—	*33*	—	*Felixstowe.*
28·5	—	32	—	Clacton.
17·3	–17·7	19	–20	Rothamsted.
35·5	—	*40*	—	*Southend.*
20·7	—	23	—	Tottenham.
13·5	—	15	—	Harrogate.
9·1	–19·3	10	–22	Worksop.
10·6	—	*12*	—	*Buxton.*
14·0	—	16	—	Nottingham.
4·8	—	5	—	Birmingham.
*	*	*	*	* *
12·1	–22·7	14	–26	Oxford.
2·6	—	3	—	Sheffield.
*	*	*	*	* *
*	*	*	*	* *
15·6	–18·0	18	–20	Cirencester.
22·0	—	25	—	Bath.
36·0	—	*40*	—	*Ramsgate.*
21·6	–12·7	24	–14	Kew.
15·5	–16·3	17	–18	Marlborough.
32·2	– 3·7	36	– 4	Margate.
20·4	—	23	—	Wisley.
27·0	—	30	—	Worthing.
27·8	– 9·8	31	–11	Tunbridge Wells.
38·8	—	44	—	Littlestone.
33·5	*– 6·7*	*38*	*– 8*	*Hastings.*
19·7	–18·7	22	–21	Southampton.
23·5	–17·6	26	–20	Ventnor.
27·8	–12·2	31	–14	Eastbourne.
20·1	*– 9·1*	*23*	*–10*	*Westminster.*
20·9	*–16·7*	*24*	*–19*	*Greenwich.*
*	*	*	*	* *
*	*	*	*	* *
25·0	+ 0·6	28	+ 1	Glasgow.
*	*	*	*	* *
37·6	—	*42*	—	*Kilmarnock.*
*	*	*	*	* *
38·5	—	*43*	—	*Dumfries.*
*	*	*	*	* *
43·6	+9·2	48	+10	Douglas.
26·0	—	29	—	Hoylake.
42·2	—	47	—	Aspatria.
36·1	+ 6·5	40	+ 7	Newton Rigg.
22·9	– 7·2	25	– 8	Stonyhurst.
25·9	– 4·8	29	– 5	Blackpool.
10·3	*–16·1*	*11*	*–18*	*Prestwich.*
25·0	—	*28*	—	*Liverpool.*
19·4	*–12·4*	*22*	*–14*	*Southport.*
23·5	—	*26*	—	*Rhyl.*
29·2	– 1·9	32	– 2	Llandudno.
36·8	—	41	—	Aberdovey.
22·4	—	25	—	Bettws-y-Coed.
40·0	—	45	—	Aberystwyth.
30·9	—	35	—	Llangammarch Wells.
44·4	+ 8·4	50	+10	Pembroke.
28·9	—	*33*	—	*Cardiff.*
				Tenby.
16·3	—	*18*	—	*Clifton.*
*	*	*	*	* *
43·1	+ 5·1	48	+ 6	Newquay.
27·4	– 7·3	31	– 8	Cullompton.
25·6	—	*29*	—	*Weymouth.*
39·5	+ 1·9	44	+ 2	Plymouth.
43·0	+ 3·9	48	+ 4	Falmouth.
38·1	*– 0·5*	*43*	*– 1*	*Torquay.*
*	*	*	*	* *
*	*	*	*	* *
48·1	+22·4	53	+25	Markree Castle.
44·4	*+14·4*	*49*	*+16*	*Birr Castle.*
47·5	+20·2	53	+23	Armagh.
*	*	*	*	* *
40·1	+ 6·2	45	+ 7	Phœnix Park.
*	*	*	*	* *
*	*	*	*	* *
44·4	+14·4	49	+16	Birr Castle.
*	*	*	*	* *
*	*	*	*	* *
*	*	*	*	* *
39·1	+ 8·4	44	+ 9	Valencia.
41·5	—	47	—	Ballinacurra.
48·9	+ 8·1	55	+ 9	Scilly.
26·6	–17·3	30	–19	St. Heliers.
27·5	–15·5	31	–17	Guernsey.

Additional Sunshine Totals for the week: *Brighton*, *29·3 hrs.* (*–10·6 hrs.*), *33 %* (*–12 %*); *Bournemouth*, *24·0 hrs.* *27 %*; *Bognor*, *33·7 hrs.* *37 %* [illegible]

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound	—	—	50·9	—
	— —				
	— —				
1.	Aberdeen	—	—	—	52·6
	Crathes	3	24	53·5	54·0
	Balmoral	3	25	—	—
	West Linton	3	25	—	—
	Marchmont	0	31	51·9	—
2.	Cockle Park	0	33	51·1	51·9
	Durham	0	33	—	—
	York	—	—	55·5	55·8
	Hull	0	39	55·6	55·6
	Lincoln	—	—	55·6	55·2
	Rauceby	0	41	56·7	55·8
3.	Norwich	—	—	—	—
	Yarmouth	—	—	58·4	58·0
	Lowestoft	0	45	58·4	57·6
	Cambridge	0	38	56·9	57·2
	Clacton-on-Sea	0	43	58·0	58·1
	Southend	0	46	59·0	—
	Tottenham	0	38	—	58·5
4.	Harrogate	0	32	52·8	53·5
	Huddersfield	0	33	53·9	54·0
	Buxton	0	32	52·4	53·5
	Sheffield	0	37	53·6	54·5
	Nottingham	0	40	54·7	55·9
	Birmingham	0	32	51·9	52·3
	Oxford	0	—	—	—
	Hereford	0	38	—	—
	Cirencester	0	35	—	—
5.	Margate	0	50	57·7	56·8
	Greenwich	0	35	—	—
	Westminster	0	43	—	—
	Kew	0	32	56·7	56·8
	Canterbury	0	44	56·5	57·0
	Tunbridge Wells	0	39	57·3	—
	Wisley	0	31	56·7	57·4
	Worthing	0	42	58·4	58·5
	Portsmouth	0	42	57·8	58·8
6.	Glasgow	1	30	—	—
	Rothesay	—	—	—	53·4
	Colmonell	1	28	—	—
	Dumfries	0	33	54·1	55·0
	Douglas	0	37	—	—
7.	Aspatria	1	30	—	—
	Newton Rigg	2	29	54·0	54·1
	Burnley	2	27	51·8	52·9
	Southport	2	26	55·2	57·4
	Manchester City	3	25	54·1	56·4
	Bettws-y-Coed	0	33	51·9	53·0
8.	Llangammarch Wells	1	28	54·1	54·4
	Cardiff	0	40	54·9	56·2
	Clifton	0	41	—	—
	Bath				
	Plymouth	0	37	56·0	—
9.	Armagh	1	27	54·7	55·8
	Markree	2	27	55·3	56·3
10.	Dublin, Trin. Coll.	0	33	54·6	55·8
11.	Guernsey, Brooklyn	0	46	59·6	60·5

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	52	51	51·4
	Kirkwall	54	53	53·8
	Wick	53	52	52·4
SCOTLAND, E.	Cromarty	54	53	53·9
	Pennan Bay	54	52	53·1
	Aberdeen, Cove Bay	55	54	54·5
ENGLAND, N.E.	Burnmouth, Berwick	54	51	52·3
	Scarborough	57	53	54·9
ENGLAND, E.	Shipwash Lightship	61	59	59·5
	Margate‡	60	59	59·6
ENGLAND, S.E.	Eastbourne‡	60	58	59·0
SCOTLAND, W.	Lamlash	57	55	56·5
	Ballantrae	56	53	54·7
ENGLAND, N.W.	Port Erin	57	54	55·0
ENGLAND, S.W.	Newquay	60	60	60·0
	Plymouth‡	61	58	59·6
	Salcombe	60	57	58·6
IRELAND, N.W.	Sheephaven	57	55	56·3
	Teelin	60	56	57·9
IRELAND, S.W.	Cleggan	58	52	55·0
	Seafield	61	53	56·6
IRELAND, E.				

‡ Only one observation each day.

Additional Ascents from the Howard Estate Observatory, Glossop.

Date 1909.	Time.	Maximum height. Metres.	Apparatus used.
September 6th.	12.38 p.m. to 1.37 p.m.	1,500	Kite.
" "	2.50 p.m. to 3.35 p.m.	1,540	"
" "	4.18 p.m. to 5.52 p.m.	1,490	Kite broke away.
September 7th.	2.13 p.m. to 3.45 p.m.	1,560	Kite.
" "	3.55 p.m. to 5.25 p.m.	1,520	"
September 8th.	9.27 a.m. to 10. 0 a.m.	1,100	Kite broke and dropped.
" "	12.25 p.m. to 1.37 p.m.	1,430	Kite.
" "	3. 9 p.m. to 5.15 p.m.	1,800	"
" "	5.45 p.m. to 7.10 p.m.	1,200	"
" "	10. 4 p.m. to 11. 0 p.m.	1,100	"
September 9th.	8.20 p.m. to 8.50 p.m.	800	Captive balloon.
" "	10.37 p.m. to 11.20 p.m.	900	" "
September 10th.	3.45 p.m. to 6. 5 p.m.	1,340	Kite.
September 11th.	1.27 a.m. to 2. 8 a.m.	950	"
" "	4. 7 p.m. to 4.55 p.m.	1,050	"
September 13th.	8.16 p.m. to 8.26 p.m.	800	Kite dived down.
September 14th.	1.55 a.m. to 2.47 a.m.	1,000	Kite.
" "	4. 5 p.m. to 4.11 p.m.	1,100	Pilot balloon.
" "	6.30 p.m. to 6.37 p.m.	1,220	" "
September 15th.	7.49 a.m. to 9.35 a.m.	840	Kite.
" "	4.10 p.m. to 6. 0 p.m.	800	Two kites on one wire.
" "	10.40 p.m. to 12.55 a.m.	1,100	" "
September 16th.	6. 7 p.m. to 7.40 p.m.	1,100	" "
September 17th.	8.25 a.m. to 10.37 a.m.	1,530	" "
" "	11.16 a.m. to 1.11 p.m.	1,840	" "
" "	2.24 p.m. to 4.40 p.m.	1,600	" "
" "	6.30 p.m.	1,050	Kite fell.
September 18th.	8. 0 a.m. to 9. 2 a.m.	1,070	Captive balloon.
" "	12.47 p.m. to 1.35 p.m.	1,430	" "

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

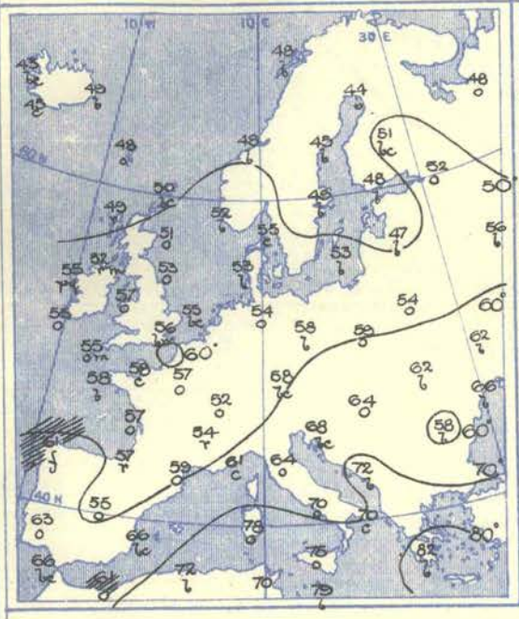
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

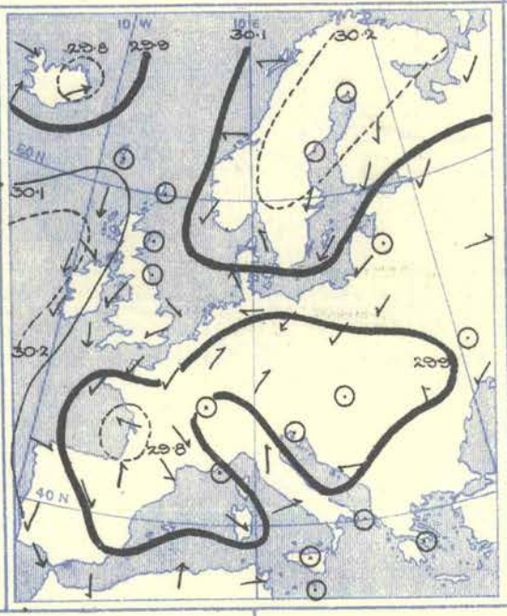
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 12th September, 1909.

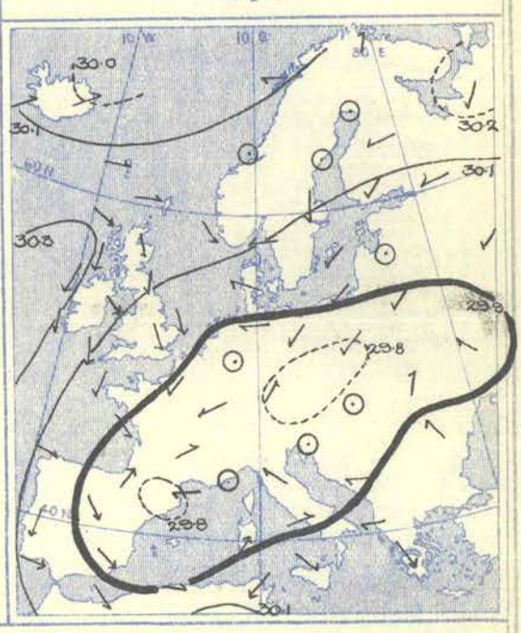
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine over the greater part of our area, but overcast in many districts, and rainy on our extreme north-west coasts, at the Helder, and at several French stations. Rain experienced later in most parts of these Islands, with thunder at some southern stations, and severe thunderstorms occurring in different parts of France. Very heavy rain in the south of the latter country and also at Trieste and Bilbao.

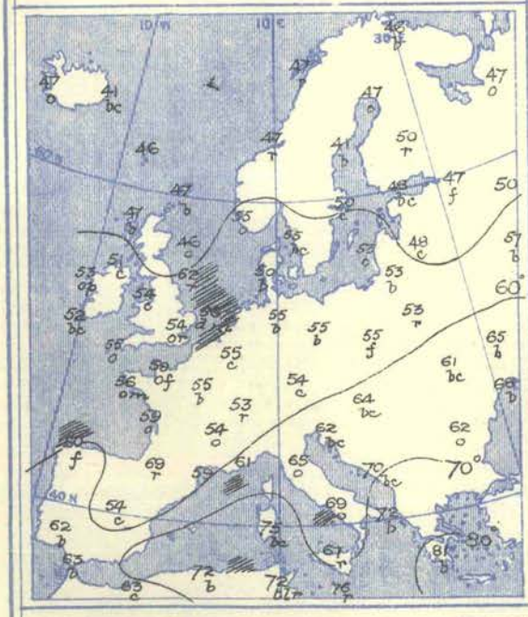
Temperature in morning above 55° over a large portion of these Islands, and about 60° over a considerable area on the Continent, but below 50° in the north. Above 70° at many stations on the shores of the Mediterranean, and above 80° in Greece. Maxima during day about 70° in the extreme south of England, but below 55° in the north of Scotland, and below 60° in the north of England: above 90° at Malta, and above 80° in many other southern localities.

Wind in morning mainly from North and North-East over the northern half of our area and in the Spanish Peninsula, and very light and variable elsewhere, but fresh or strong from the South-Westward in Iceland. No important change later in day; increasing somewhat in force from the Northward on some parts of our own coast.

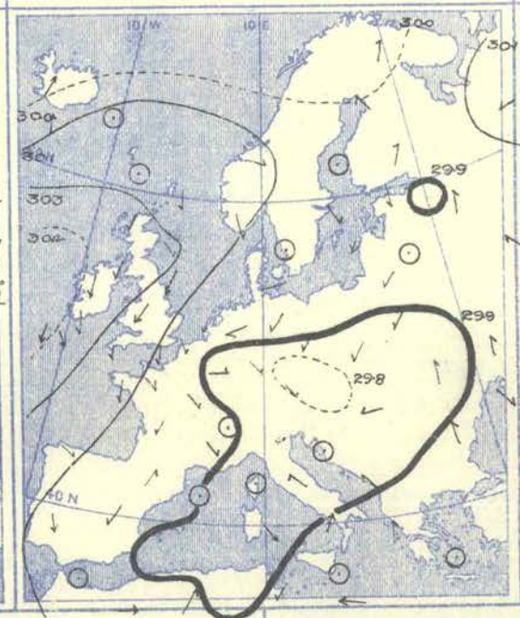
Barometer in morning above 30·2 ins. in the north-west of Ireland and over the adjacent portion of the Atlantic, and also in a band extending from the south of Sweden to the White Sea. Below 29·8 ins. in depressions over France and Spain, and relatively low over the whole of central Europe. A depression of decreasing intensity shown over Iceland. Little change in the general distribution later in day; pressure decreasing slowly in central Europe, rising in Iceland and in the north and west of these Islands.

Monday, 13th September, 1909.

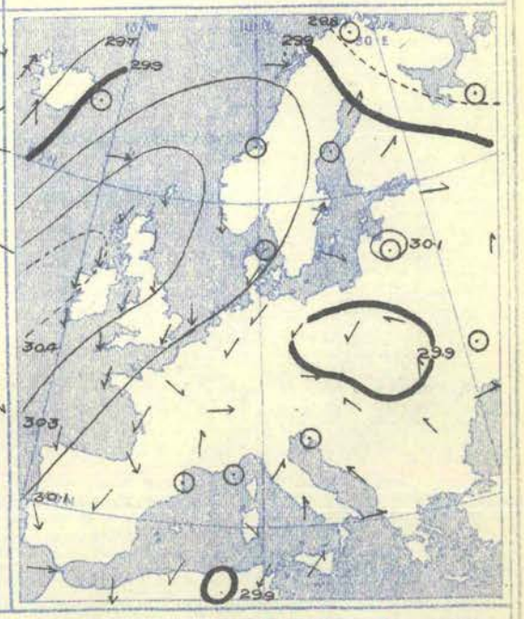
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in the eastern half of England, and also at places over a wide area in France, Germany, and northern Europe, and thunderstorms in progress at Cape de Garde and Sfax. Fair to fine and bright over Ireland, the east of our area, and at most stations on the shores of the Mediterranean. Rain during day in the east and south of England, France, and the central countries, and also at Archangel.

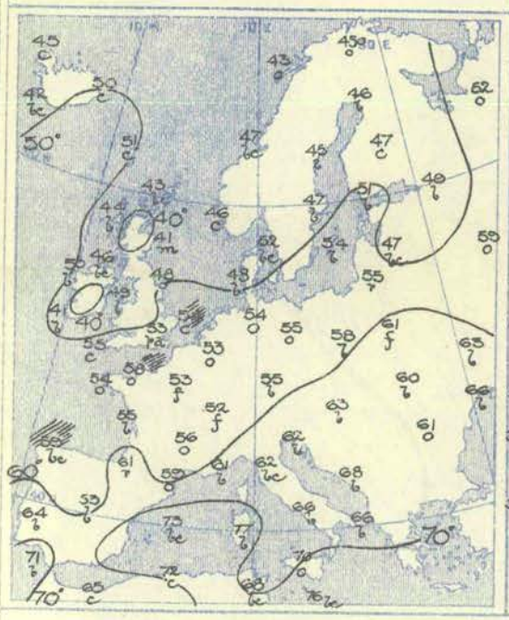
Temperature fallen over the United Kingdom. Morning readings below 45° in the north of Scotland, and below 55° in most parts of England and Ireland. Below 50° very generally over the northern regions of the Continent, but above 60° in some central localities, above 70° at a few places over the Mediterranean, and about 80° in Greece. Maxima during day below 60° over the greater portion of this country, and below 65° at most stations in Germany and the north of France. Thermometer rising to 90° at Bucharest, and to 80° or higher at some southern stations.

Wind in morning Northerly over these Islands, France, and the Bay of Biscay; strong in force on our east coast. Variable in force and mainly Southerly in direction over Italy and the eastern parts of our area. A moderate to strong breeze from the South-West prevailing in Iceland. No change of a general character later, but South-Westerly current increasing to a gale in Iceland.

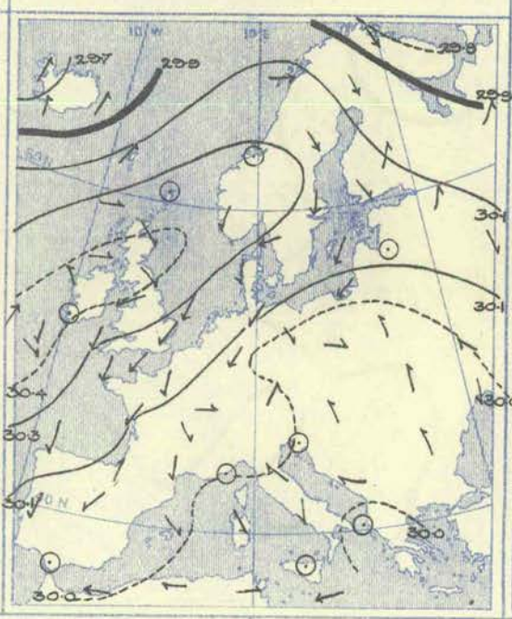
Barometer in morning above 30·3 ins. over Ireland and Scotland, and still higher on the Atlantic. Below 29·8 ins. in a depression over central Europe, and relatively low in the far north. Anticyclonic system extending further over these Islands during day, but a very brisk fall of the barometer taking place in Iceland. Disturbance over the central countries becoming less deep.

Tuesday, 14th September, 1909.

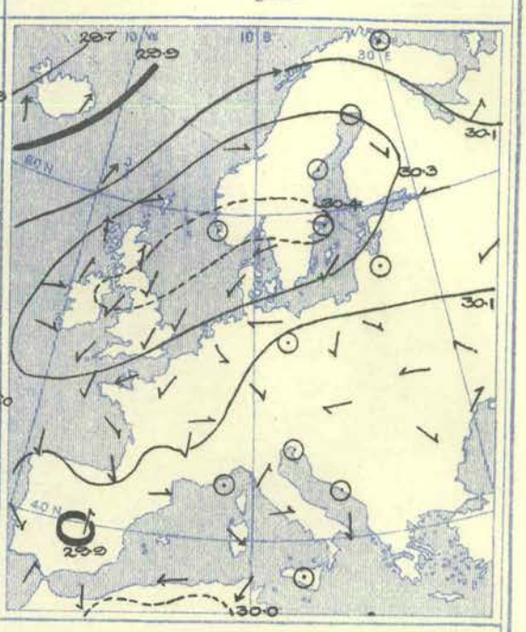
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine over the major portion of our area, but cloudy or overcast in places, with rain in some parts of Germany and France, and slight showers in London. Some rain later at a few stations scattered over a wide area on the Continent, and a thunderstorm at Aumale.

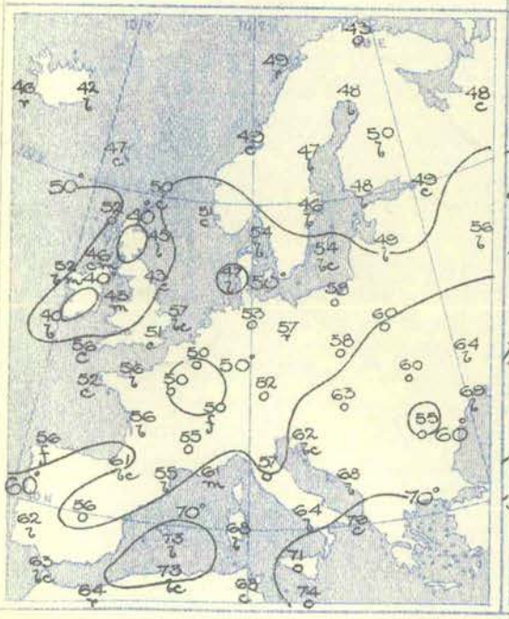
Temperature fallen in most regions. Morning readings ranging from above 70° in various places on the shores of the Mediterranean, to about 60° over the southern half of Russia and its neighbourhood, to below 50° over Scandinavia and the nearer portion of Russia, and to below 40° in the north of Scotland. Maxima during day below 60° at most of our own stations and over a large portion of Germany; above 70° in Austria-Hungary and Italy, and 88° at Malta.

Wind in morning moderate to fresh from the North-Eastward in England and the north of France, light to strong from the South-Westward over the Icelandic region, and from between North-West and North over Sweden and the Baltic. Light breezes from various quarters prevailing elsewhere. South-Westerly current over the Icelandic region becoming more pronounced during day, but force decreasing over England and the Baltic.

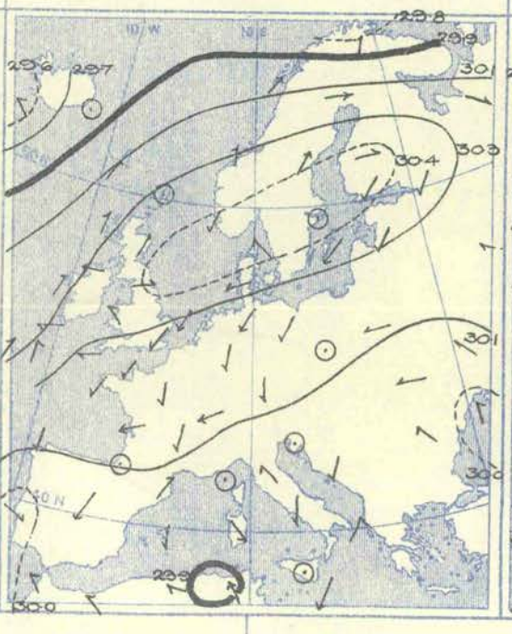
Barometer in morning above 30·4 ins. in an anticyclonic band extending from the Azores across Ireland to the North Sea; below 29·8 ins. in a depression in the extreme north of our area, and below 29·7 ins. to the westward of Iceland. Little change in the general distribution during day, but high pressure moving north-eastwards and reaching Finland by evening. Barometer remaining nearly stationary in Iceland.

Wednesday, 15th September, 1909.

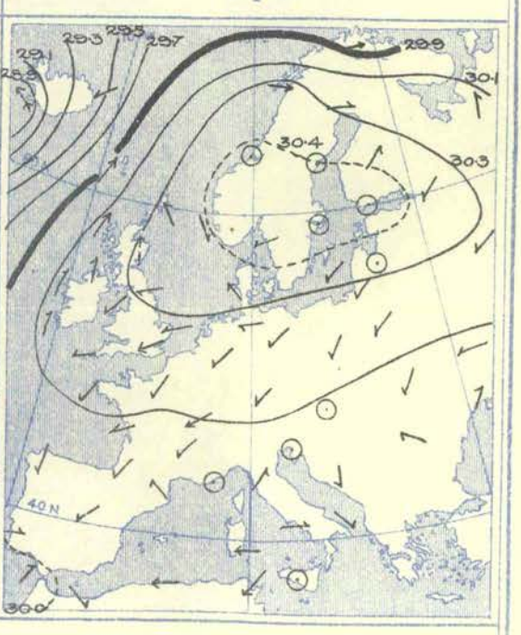
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright over the greater part of our area, but overcast in many French and German districts, with rain at Cape Gris Nez, Frankfurt, and Berlin; rain also falling at Bodö. Some rain experienced later in the south-east of England and at various places in central Europe, and more than an inch at Nemours.

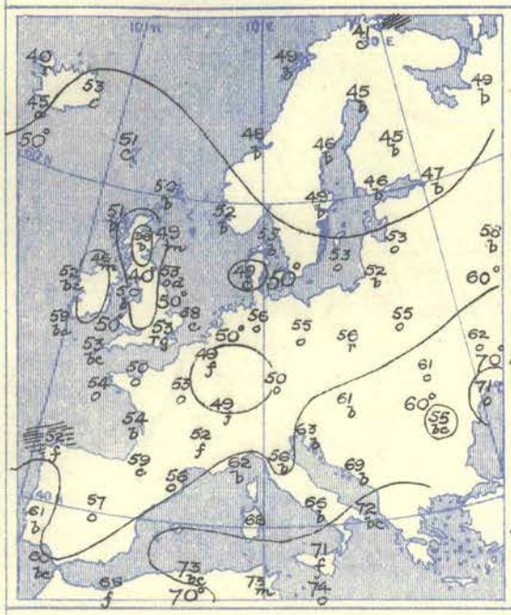
Temperature showing no decided change. Morning readings ranging from above 70° in the extreme south of our area to a little above 50° at many stations in France and the central countries, to below 50° in Scandinavia, and to 37° at Nairn. Maxima during day slightly above 60° in different parts of England, Germany, and Austria, above 70° in the south of France and southern Europe generally, and above 80° at a few stations; highest reading 86° at Bucharest.

Wind in morning light or moderate anticyclonic over our area as a whole, but cyclonic over the Mediterranean and in the Icelandic region. South-Westerly current strong to high in the north of Norway. Increasing to a strong gale from South-East in the south-west of Iceland by evening, and to a strong breeze from South-West at Thorshavn. Little change elsewhere.

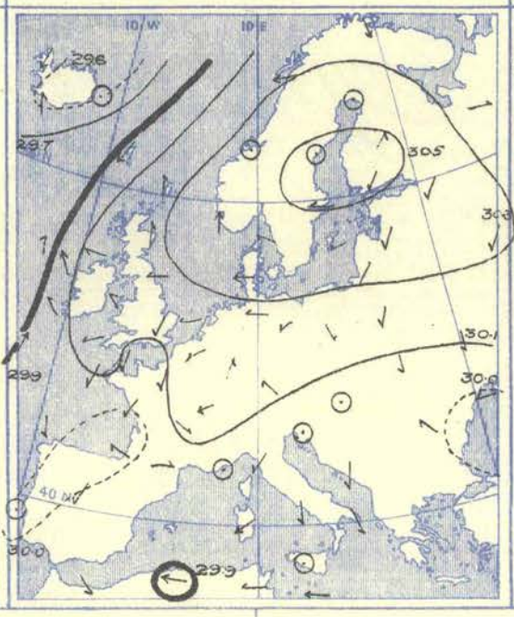
Barometer in morning above 30·4 ins. in a band extending from our north-east coast to Finland; below 29·9 ins. in a depression over Algeria, and below 29·6 ins. in the west of Iceland. Pressure decreasing very quickly in the latter region during day, and gradient growing very steep between Iceland and the Færoe. Barometer falling slowly over our Islands and France.

Thursday, 16th September, 1909.

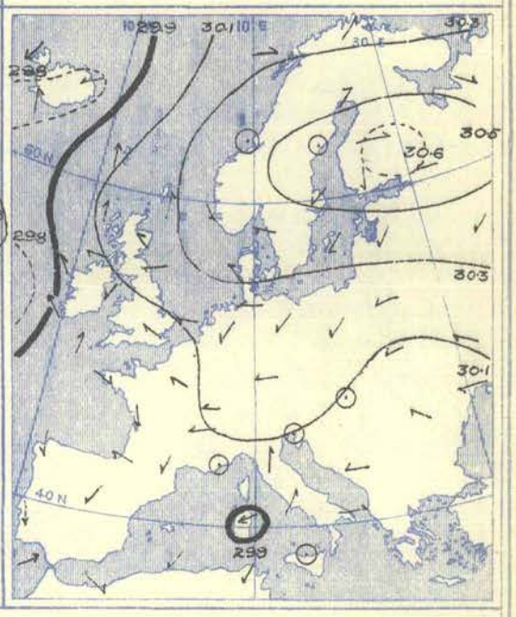
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in several parts of England and central Europe, as well as in the south of Sardinia; fair to fine and bright in nearly all other regions. Slight rain later in various parts of England, a considerable fall at Vienna, and an inch at Trieste. Thunderstorms and rain occurring in Algeria.

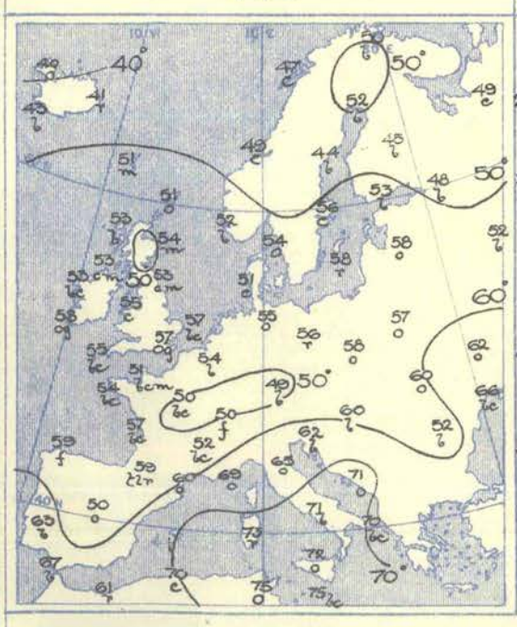
Temperature risen over the United Kingdom, fallen at many French and German stations. Readings in morning as low as 38° at Nairn, but above 50° over these Islands as a whole. Below 50° over most of northern Europe, but about 60° over the greater part of Russia and Hungary, above that figure in southern Europe, and above 70° at many stations in the far south of our area. Maxima during day not far from 50° in these Islands and the greater portion of central Europe, but between 70° and 80° over the southern regions, and above 80° in places.

Wind in morning showing a vast anticyclonic circulation over the greater portion of Europe, but light cyclonic breezes prevailing over the south of England and the Channel, and South-Westerly winds, strong to a gale, between Scotland and Iceland. No material change during day.

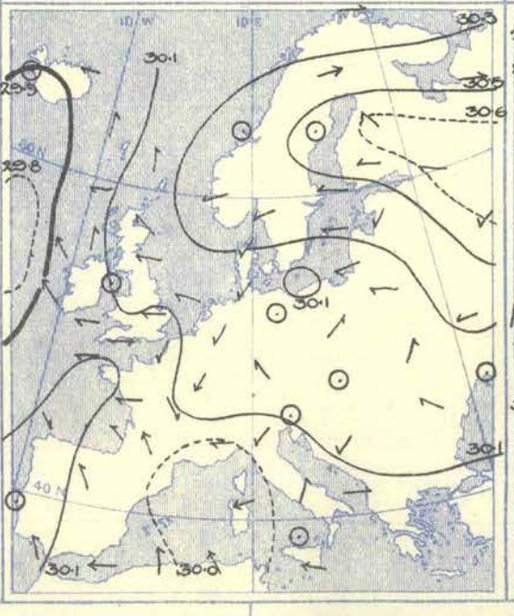
Barometer in morning ranging from above 30·5 ins. in an anticyclone centred over Sweden and Finland to below 29·9 ins. in a shallow depression over Algeria, and to below 29·6 ins. in another over Iceland. An ill-defined secondary disturbance over the south of England. Iceland depression becoming less deep during day, but barometer falling slowly over these Islands and the nearer regions of the Continent; anticyclonic system over northern Europe increasing in intensity.

Friday, 17th September, 1909.

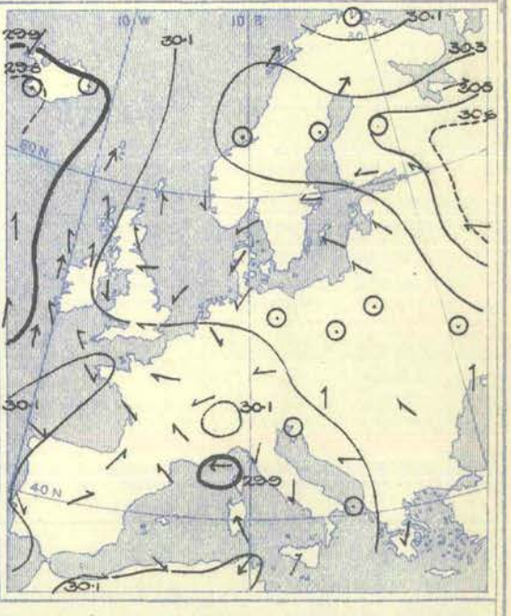
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast, with rain in places, over North Germany and the Baltic, and a good deal of cloud prevailing over our area generally. Rain falling at Nottingham and at a few stations in the south of Europe and in Algeria, and a thunderstorm in progress at Biarritz. Thunderstorms, with heavy rain and hail over the South Midlands later; 0·8 in. of rain falling at Oxford in fifteen minutes. Thunderstorms and very heavy rain experienced in many French localities and also in the north of Italy. About 2·4 ins. of rain at Nantes and Croisette.

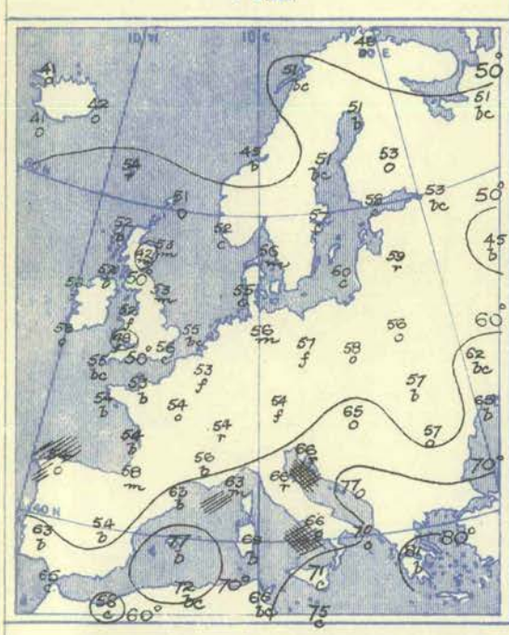
Temperature risen in most parts of the United Kingdom; morning readings above 55° in many parts of England and the central countries, but below 50° at Nairn and over the northern countries of the Continent. Readings above 70° over a considerable portion of the Mediterranean. Rising to about 70° during day at a few of our most southern stations and also over a large portion of France and central Europe, but touching or exceeding 80° at many places in the south of Europe, and reaching 88° at Athens.

Wind in morning showing local cyclonic circulations over Germany and the English Channel, and a larger cyclonic movement over the Mediterranean, but anticyclonic over our area generally. Fresh to strong breezes prevailing at some spots on the shores of southern Europe and Algeria, but light or moderate as a whole. No important change later.

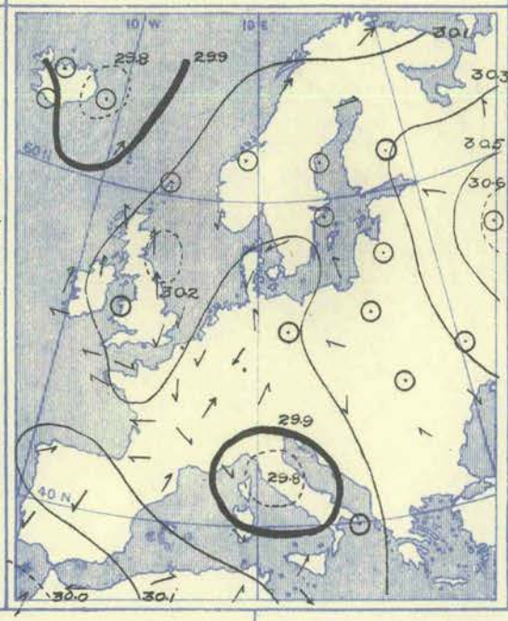
Barometer in morning above 30·6 ins. in a high pressure system having its maximum over Finland and the adjacent part of Russia; below 30·0 ins. in a shallow depression over the Mediterranean, relatively low over North Germany and the south of England, and also off the west coast of Ireland. Little modification occurring in the general distribution during day. Pressure decreasing somewhat in Iceland, but disturbance off the west of Ireland beginning to disperse.

Saturday, 18th September, 1909.

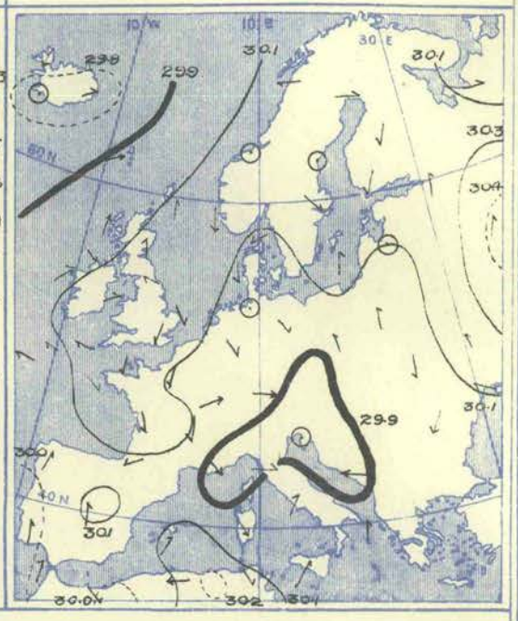
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning varying a good deal; fair to fine and bright in some districts, both in the north and south of our area, but fog prevailing in places, and overcast skies, with rain, reported in widely separated districts. Some rain later in the Hebrides and one or two other parts of these Islands, and heavy amounts in some districts on the Continent; about an inch at Rome and Carlsruhe, and nearly 2·4 ins. at Hermanstadt. A thunderstorm occurring at Paris.

Temperature changed rather irregularly, but fallen in most regions. Readings in morning below 50° at some stations in central Russia, Scandinavia, and Scotland, but above 55° over a very large portion of our area, and above 70° in the far south; highest values 81° in the south of Greece. Maxima during day below 65° in almost all parts of this country, but about 70° at St. Petersburg, and over a large portion of central Europe, and between 70° and 80°, or above, in the south of our area.

Wind in morning showing a vast anticyclonic circulation over the United Kingdom, and nearly the whole of northern and eastern Europe, and light to moderate or fresh cyclonic breezes over the Baltic, southern Europe, and the Icelandic region. No change of importance occurring later in day.

Barometer in morning above 30·6 ins. in central Russia, and relatively high in a band of irregular shape extending thence to the west of Norway, and thence to the south of these Islands and the north of France. Below 29·8 ins. in a depression over Italy, and in another system over Iceland. Very little change taking place in the general distribution of pressure during day; depression over Italy extending northwards towards Germany and the Baltic.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). *See* also p. 300.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Sept. 13th, 1.23 p.m. to 2.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	280° 100% 10°, 9	279° 100% 10°, 18	278° 100% 12°, 18	274° 100% 14°, 20	272° 100% 14°, 19			272° 100% 14°, 19	1,570	Dull and wet. Fresh breeze. Clouds, Ni. 10.
2	Sept. 13th, 2.43 p.m. to 3.15 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	285·5° 90% 10°, 7	284° 90% 10°, 14	282·5° 100% 20°, 18					282° 100% 25°, 20	650	Clouds at 550 m. Raining. Extremely gusty wind.
3	Sept. 14th, 9.45 a.m. to 10.35 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	285° 70% 15°, 7	15°, 11	283° 90% 10°, 14	279·5° 100% 10°, 16				282° 65% 10°, 17	1,200	Clouds at 900 m. Inversion a little over 1,000 m. Wind above 600 m. very steady.
4	Sept. 14th, 9.47 a.m. to 11.10 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282° 75% 32°, 4	281° 78% 35°, 7	280° 80% 40°, 8	275° 90% 50°, 11				274° 91% 50°, 11	1,100	Fine, but overcast. Light breeze. Clouds, Cu. 9.
5	Sept. 15th, 6.40 p.m. to 8.45 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282° 90% 90°, 5	281·5° 88% 85°, 7	281°, 5 87% 84°, 12	278° 88% 80°, 10				277° 92% 80°, 10	1,130	Fine. Moderate breeze. No clouds. Wind velocity fell off rapidly above 800 m.
6	Sept. 16th, 10.57 a.m. to 12.56 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	286° 97% 96°, 4	285° 97% 96°, 6	284·5° 98% 97°, 13	281·5° 99% 97°, 13	279° 99% 98°, 13	276·5° 100% 95°, 13		276·5° 100% 94°, 13	2,080	
7	Sept. 17th, 5.36 a.m. to 6.52 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 98% 96°, 4	282° 92% 98°, 10	281·5° 90% 100°, 13	281° 83% 110°, 13	278° 94% 112°, 13			275° 100% 112°, 14	1,840	Fair. Gentle breeze. Clouds, Cu. and Ni. 10.
8	Sept. 18th, 11.17 a.m. to 12.5 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind .. .	285° 82% Calm.	284° 83% Calm.	283° 83% Calm.	278° 78% 35°, 5	280° 51% 35°, 1					Fine, but overcast. Calm. Clouds, Cu. 10. Hazy. Temp. inversion.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8
No. of Kites or Balloons	1	1	1	1	2	2	2	1
Area of Surface (sq. metres) ..	7·6	7	7	7·5	15·8	15·8	15·8	—
Capacity of Balloon (sq. metres)	—	—	—	—	—	—	—	2·5
Length of Wire (metres)	2,300	700	1,700	1,500	1,600	3,300	3,000	1,600

63, Victoria Street, London, S.W. *September 22nd, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 38. THIRTY-EIGHTH WEEK, SUNDAY SEPTEMBER 19TH TO SATURDAY SEPTEMBER 25TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather was at first fair and dry over England, but afterwards became very unsettled over the United Kingdom generally. Thunderstorms were experienced in several parts of England on Wednesday and over a still wider area on Thursday, the accompanying rainfall being very heavy at some places in the north and east of England. A magnetic storm of considerable intensity occurred very generally on Saturday, and aurora was seen on the evening of that day in Anglesey, the Isle of Man and the west of Scotland.

Temperature differed but little from the average, a slight deficit being reported over North Britain, but an excess in all other parts of the Kingdom. At many western and northern stations the highest readings occurred on Sunday, but over the country generally they were observed in the latter half of the week. At one or other of those times the thermometer rose to about 70° in most districts, the highest reading reported being 74° in England E. (at Hillington), and in the Channel district (at Guernsey). The lowest readings occurred at various times around the middle of the week, when the sheltered thermometer sank to 35° or less in several inland parts of Great Britain, and to 30° in England S.W. (at Llangammarch Wells). Ground frost occurred in many places on the nights of Monday and Tuesday, the exposed thermometer falling to 25° at Llangammarch Wells, 26° at Hereford, and 27° at Cambridge and Manchester.

Mean Temperature of the Sea.—On the Irish coasts and off the west and north of Scotland the water was warmer than in the corresponding week of last year, but on the British coasts generally it was somewhat cooler. The mean values for the week ranged from between 59° and 60° on the east and south-east coasts of England to between 51° and 53° at most places on the north and north-east coasts of Great Britain.

Rainfall was above the average over the eastern half of the United Kingdom generally, but below it in England E. In the western and extreme northern districts it was very deficient. During the thunderstorms of Thursday as much as 1·6 inch fell at Belvoir Castle and 1·5 inch at Bradford (the newspapers report a fall of 3·38 inches at Castle Bytham, in south-west Lincolnshire), while on Friday a fall of 1·4 inch was recorded at Overcourt, near Bristol, and 1·2 inch at Bettws-y-Coed.

Bright Sunshine was generally deficient, especially in Scotland E., but was equal to the average in England S.W., and was in excess in England N.W., Ireland N. and the English Channel. The percentage of the possible duration ranged from 65 in the English Channel and 38 in England N.W., and S.W. to 19 in Scotland N. and 13 in Scotland E.

Barometer and Wind.—At the commencement of the week a large area of high pressure was in existence, and the light breezes which prevailed over these islands showed a distinct anticyclonic circulation. On Monday, when the system moved away to the Atlantic, a current of air from North or North-West became general, but this soon died away, and about the middle of the week the distribution of pressure was very irregular, and the winds showed great variability. Later on the United Kingdom was situated between two high pressure systems, one lying over Scandinavia and afterwards over Iceland, while the other extended over Spain and France from the southern portions of the North Atlantic. With these conditions the wind was light from the Southward or South-Westward in the south of these islands, but from the Eastward or North-Eastward on our northern coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 300.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Light	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Light	Light
	Sunshine ...	Scanty	Very scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Abundant	Moderate	Moderate	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 3 weeks from Sept. 5th, 1909.	Warmth ...	0 * 2	0 * 2	0 * 2	0 * 1	0 * 1	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2	0 * 1
	Rainfall ...	0 * 2	2 * 1	0 * 0	1 * 0	0 * 0	1 * 0	0 * 1	0 * 1	0 * 1	0 * 2	0 * 3	1 * 1
	Sunshine ...	1 * 1	1 * 1	0 * 2	0 * 2	0 * 2	0 * 1	1 * 1	1 * 0	0 * 0	1 * 0	1 * 0	1 * 1

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

8132 450 Wy. & S. Ltd. 9—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-EIGHTH WEEK—September 19th to September 25th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees: Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	68	38	56·6	46·0	51·0	- 0·2	63	- 2	0	- 1	4	- 1	0·35	-0·71	17	- 6	19	- 7
Eastern																		
1. SCOTLAND, EAST	66	33	56·8	43·8	50·0	- 1·7	56	- 13	0	- 1	6	+ 3	0·76	+0·22	11	- 16	13	-18
2. ENGLAND, N.E.	70	40	60·1	47·5	53·5	- 0·4	81	- 2	0	0	4	+ 1	0·36	+0·01	21	- 9	25	-10
3. ENGLAND, EAST	74	36	63·5	49·2	56·0	+ 0·4	98	+ 2	0	0	3	0	0·31	-0·11	27	- 7	32	- 9
4. MIDLAND COUNTIES	71	33	63·0	47·0	54·6	+ 0·2	88	+ 1	0	- 1	4	+ 1	0·58	+0·14	23	- 8	26	- 9
5. ENGLAND, S.E.	70	35	64·7	50·6	57·3	+ 0·5	107	+ 4	0	0	4	+ 1	0·64	+0·17	32	- 3	37	- 3
Western																		
6. SCOTLAND, WEST	70	34	60·6	44·6	52·3	- 0·5	72	- 4	0	0	3	0	0·38	-0·55	20	- 8	24	-10
7. ENGLAND, N.W.	68	38	61·7	46·6	53·8	- 0·8	83	- 5	0	0	3	- 1	0·55	-0·11	33	+ 4	38	+ 4
8. ENGLAND, S.W.	72	30	63·5	49·4	56·1	+ 0·2	99	+ 2	0	0	2	- 2	0·39	-0·30	33	0	38	0
9. IRELAND, NORTH	68	36	61·4	47·4	54·1	+ 0·5	85	+ 3	0	0	3	- 1	0·34	-0·35	30	+ 4	35	+ 5
10. IRELAND, SOUTH	72	38	62·6	49·2	55·6	+ 0·7	95	+ 5	0	0	4	+ 1	0·27	-0·37	29	- 2	33	- 2
11. ENGLISH CHANNEL	74	46	66·6	53·5	59·8	+ 1·0	125	+ 7	0	0	2	- 2	0·07	-0·51	56	+ 14	65	+16

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 3 Weeks, September 5th to September 25th, 1909.

0. SCOTLAND, NORTH	68	32	*	*	*	*	185	- 33	0	- 1	12	- 2	1·60	-1·36	96	+ 23	35	+ 8
Eastern																		
1. SCOTLAND, EAST	70	26	*	*	*	*	176	- 59	4	+ 2	12	+ 2	1·66	+0·16	83	- 4	31	- 2
2. ENGLAND, N.E.	70	33	*	*	*	*	227	- 46	0	0	12	+ 3	1·25	-0·16	70	- 27	26	-10
3. ENGLAND, EAST	74	36	*	*	*	*	277	- 33	0	0	12	+ 4	1·40	+0·11	89	- 20	33	- 7
4. MIDLAND COUNTIES	71	33	*	*	*	*	242	- 43	0	- 1	13	+ 5	1·33	-0·02	68	- 28	25	-10
5. ENGLAND, S.E.	71	33	*	*	*	*	298	- 35	0	0	14	+ 6	2·01	+0·53	101	- 11	38	- 4
Western																		
6. SCOTLAND, WEST	70	31	*	*	*	*	214	- 37	0	0	8	- 2	1·30	-1·35	94	+ 1	35	0
7. ENGLAND, N.W.	69	32	*	*	*	*	226	- 58	0	0	7	- 3	1·33	-0·60	96	+ 2	36	+ 1
8. ENGLAND, S.W.	72	30	*	*	*	*	267	- 42	0	0	9	- 1	1·05	-0·92	106	+ 1	40	0
9. IRELAND, NORTH	68	30	*	*	*	*	226	- 38	0	0	10	- 2	1·34	-0·74	104	+ 22	39	+ 8
10. IRELAND, SOUTH	72	32	*	*	*	*	254	- 34	0	0	10	0	0·65	-1·30	107	+ 11	40	+ 4
11. ENGLISH CHANNEL	74	46	*	*	*	*	354	- 14	0	0	11	+ 1	1·01	-0·61	133	0	50	0

THE YEAR.—Aggregates, &c., for the Period of 38 Weeks, January 3rd to September 25th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1613	-159	535	- 23	176	+ 2	27·16	-7·21	977	+ 19	27	+ 1
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	1771	-234	677	+ 55	149	+ 6	23·12	+2·05	1102	- 37	31	- 1
2. ENGLAND, N.E.	85	14	*	*	*	*	2150	- 73	580	+105	134	+ 5	19·25	+2·38	1185	- 47	34	- 1
3. ENGLAND, EAST	85	12	*	*	*	*	2374	-196	554	+ 33	135	+11	16·68	+0·48	1388	+ 52	40	+ 1
4. MIDLAND COUNTIES	86	8	*	*	*	*	2337	-184	642	+108	128	+ 5	18·33	+0·22	1237	+ 42	35	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	2479	-273	482	+101	127	+ 9	19·38	+1·79	1483	+128	43	+ 4
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	1995	-159	445	+ 20	142	- 8	30·30	-1·20	1221	+ 47	34	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2150	-201	466	+ 80	136	- 2	22·90	-0·24	1297	+106	37	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2379	-222	390	+ 89	133	- 2	21·39	-3·23	1438	+115	41	+ 3
9 IRELAND, NORTH	78	14	*	*	*	*	2143	-108	315	- 30	165	+ 1	23·09	-2·85	1068	- 5	30	0
10. IRELAND, SOUTH	81	15	*	*	*	*	2497	- 77	265	+ 6	149	+ 4	21·68	-5·45	1232	+ 28	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	2914	- 40	151	+ 42	122	-21	16·88	-3·42	1720	+110	50	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts	Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*56*	*23rd*	*45*	*20th, 21st*	*52·9*	*47·9*	*50·3*	—	*58*	*0*	*4*	*0·17*	—	*7·3*	—	*8*	—	*Balta Sound.*
	a Sumburgh Head ..	55	22nd	43	21st	53·1	47·0	49·9	- 0·1	55	0	5	0·31	- 0·47	5·7	-19·3	7	- 22	Deerness.
	a Stornoway	63	23rd	42	20th	57·4	46·4	51·6	+ 0·5	67	0	3	0·23	- 0·81	26·7	+ 0·9	31	+ 1	Stornoway.
	a Castlebay, Barra Isd.	*62*	*25th*	*46*	*21st, 23rd*	*57·4*	*49·3*	*53·2*	+ *1·7*	*78*	*0*	*2*	*0·11*	—	*36·1*	—	*42*	—	*Castlebay.*
	a Wick	57	19th, 22nd	40	20th	55·3	46·4	50·6	- 0·7	60	0	7	0·51	- 0·10	*	*	*	*	
	p Strathpeffer	60	23rd	38	21st	56·7	46·7	51·5	+ 0·1	67	0	4	0·64	+ 0·07	18·8	- 7·8	22	- 9	Strathpeffer.
	p Glencarron .. S	66	23rd	38	21st	57·2	45·0	50·8	+ 0·6	62	0	2	0·17	- 1·82	*	*	*	*	
	p Fort Augustus S	59	23rd	38	23rd	56·4	45·2	50·5	- 1·5	60	0	2	0·32	- 0·60	*15·4*	- 3·6	18	- 4	Fort Augustus.
	p Fort William S	68	23rd	41	21st	59·9	45·6	52·4	- 0·2	73	0	3	0·26	- 1·43	*	*	*	*	
1. SCOTLAND E.	*p* Gordon Castle S	66	23rd	42	20th, 24th	57·7	44·5	50·8	- 1·8	62	0	6	1·15	+ 0·55	*11·8*	—	*14*	—	*Gordon Castle.*
	a Nairn	59	19th, 23rd	40	23rd, 24th	55·7	43·3	49·2	- 2·7	50	0	7	0·69	+ 0·19	12·8	—	15	—	Nairn.
	a Aberdeen	65	19th	41	19th	56·3	46·9	51·4	+ 1·0	66	0	7	0·99	+ 0·41	10·5	-17·5	12	- 20	Aberdeen.
	a Balmoral .. S	64	23rd	33	23rd	58·9	40·4	49·2	+ 0·4	57	4	4	0·32	- 0·34	9·6	—	11	—	Crathes S.
	p Crieff .. .. S	61	25th	36	21st	57·7	44·1	50·6	- 2·3	60	0	5	0·48	- 0·26	13·4	—	16	—	Balruddery
	a Leith	63	19th	41	19th	56·7	46·3	51·3	- 2·7	65	0	5	1·05	+ 0·65	7·7	-15·6	9	- 18	Edinburgh.
	a West Linton.. S	58	19th	35	19, 21, 23rd	54·2	40·8	47·2	- 3·6	41	3	5	0·53	—	*10·6*	—	*12*	—	*West Linton.*
	p Marchmont .. S	65	19th	39	23rd	57·0	43·7	50·0	- 1·6	56	0	5	0·87	+ 0·24	10·7	-15·8	12	- 18	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	68	19th	42	23rd	57·1	45·7	51·1	- 1·2	64	0	5	0·37	- 0·21	18·1	—	21	—	Cockle Park.
	a Shields	68	19th	43	21st	58·1	46·0	51·8	- 1·8	69	0	5	0·55	+ 0·11	*9·3*	*- 13·2*	*11*	*- 15*	*Newcastle.*
	p Durham	69	19th	40	19th, 23rd	57·5	45·0	51·0	- 2·2	63	0	5	0·51	+ 0·04	12·6	- 14·1	15	- 16	Durham.
	p Rounton .. M	68	19th	42	19th, 23rd	58·6	44·5	51·2	- 1·5	64	0	6	0·29	- 0·16	*	*	*	*	
	p Scarborough.. M	64	24th	46	21st, 22nd	59·1	49·6	54·1	- 0·6	85	0	3	0·15	- 0·32	20·0	—	23	—	Scarborough.
	p York	70	19th	40	21st	63·1	47·0	54·7	+ 0·2	89	0	3	0·36	- 0·06	17·5	- 9·7	20	- 11	York.
	a Spurn Head	66	24th	48	21st, 22nd	60·7	51·9	56·1	+ 0·2	99	0	1	0·01	- 0·34	*	*	*	*	
	a Lincoln	68	24th	40	21st	62·2	48·6	55·1	+ 0·2	92	0	4	0·23	- 0·18	32·5	—	38	—	Skegness.
	a Fulbeck	70	19th, 23rd	42	21st	64·5	49·6	56·7	+ 1·5	103	0	5	0·81	+ 0·38	26·8	—	31	—	Rauceby.
															29·3	—	*34*	—	*Lowestoft.*
	p Cromer	68	24th	46	22nd	62·0	51·4	56·5	+ 1·1	102	0	5	0·12	—	29·7	—	35	—	Cromer.
	p Hillington .. M	74	23rd	37	21st	63·7	47·0	55·0	- 0·2	91	0	2	0·18	- 0·39	26·5	- 4·9	31	- 6	Hillington.
	a Yarmouth	67	24th	44	21st	61·3	50·9	55·9	- 0·2	97	0	2	0·29	- 0·19	29·1	—	34	—	Yarmouth.
3. ENGLAND, E.	*a* Norwich														*	*	*	*	
	p Geldeston	71	23rd	40	21st	64·2	48·6	56·0	+ 0·1	98	0	2	0·18	- 0·32	28·8	- 6·5	34	- 8	Geldeston.
	p Cambridge	69	22nd, 23rd	36	21st	65·6	48·8	56·8	+ 0·9	104	0	4	0·39	- 0·04	27·3	- 6·6	32	- 8	Cambridge.
	a Felixstowe	*65*	*19th, 24th*	*43*	*21st*	*62·6*	*51·7*	*56·9*	*- 0·1*	*104*	*0*	*3*	*0·31*	—	*33·3*	—	*39*	—	*Felixstowe.*
	a Clacton-on-Sea ..	66	24th	42	21st	62·6	51·3	56·7	+ 0·2	103	0	1	0·28	—	28·8	—	34	—	Clacton.
	a Rothamsted ..	67	22nd	42	21st	62·9	48·9	55·6	+ 1·0	95	0	5	0·26	- 0·24	26·1	- 6·9	30	- 8	Rothamsted.
	a Shoeburyness ..	*67*	*24th*	*44*	*21st*	*64·1*	*51·6*	*57·6*	*- 0·1*	*109*	*0*	*3*	*0·13*	*- 0·31*	*25·7*	—	*30*	—	*Southend.*
	p Tottenham	70	22nd	40	21st	65·7	46·3	55·5	- 0·9	95	0	4	0·75	—	20·8	—	24	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	67	19th	40	21st	59·7	45·5	52·3	- 0·7	72	0	4	0·38	- 0·20	18·8	—	22	—	Harrogate.
	a Bawtry	67	24th	38	21st	61·9	47·1	54·1	- 0·3	85	0	4	0·83	+ 0·44	15·7	-11·1	18	-13	Worksop.
	p Buxton .. M	*64*	*19th*	*40*	*22nd*	*58·9*	*45·1*	*51·7*	+ *0·4*	*68*	*0*	*4*	*0·65*	*- 0·20*	*23·1*	—	*27*	—	*Buxton.*
	a Nottingham ..	68	19th	44	21st, 22nd	63·0	48·1	55·2	+ 0·4	92	0	4	0·77	+ 0·31	22·3	—	26	—	Nottingham.
	p Birmingham, Edgbsn	67	19th	46	21st	62·5	49·9	55·9	+ 1·4	97	0	3	0·73	+ 0·26	21·9	—	26	—	Birmingham.
	a Oxford	70	24th	40	21st	65·7	48·0	56·4	+ 1·6	101	0	5	0·32	—	*	*	*	*	
	a Cheadle .. M	69	22nd	42	19th	64·0	48·0	55·6	+ 0·3	95	0	4	0·60	+ 0·17	26·2	- 6·6	31	- 8	Oxford.
	p Shrewsbury	64	19th	45	19, 21, 22nd	60·3	47·5	53·6	+ 0·4	81	0	5	0·81	+ 0·19	13·9	—	16	—	Sheffield.
	a Hereford .. M	71	19th	37	21st	63·2	44·8	53·6	- 1·5	81	0	2	0·24	—	*	*	*	*	
	p Shrewsbury	71	19th	33	21st	63·9	44·8	53·9	- 1·0	83	0	2	0·20	- 0·25	*	*	*	*	
	a Cirencester	66	19th, 22nd	38	19th	63·1	45·8	54·0	- 0·4	84	0	3	0·91	+ 0·36	26·8	- 4·5	31	- 5	Cirencester.
	a Bath	69	22nd	41	20th	65·6	47·9	56·3	0·0	100	0	4	0·63	+ 0·07	36·1	—	42	—	Bath.
															32·4	—	*38*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	*p* Kew	68	22nd	43	21st	64·5	49·5	56·6	+ 0·9	102	0	4	0·45	- 0·04	28·6	- 3·1	33	- 4	Kew.
	a Marlborough ..	67	22nd	35	21st	64·1	45·5	54·4	+ 0·9	87	0	5	0·86	+ 0·33	30·2	+ 1·3	35	+ 1	Marlborough.
	a Margate	70	23rd	50	21st	65·5	53·0	59·0	+ 1·5	119	0	3	0·68	+ 0·21	28·6	- 5·3	33	- 6	Margate.
	a Wisley, Surrey ..	68	22nd	39	21st	65·1	48·8	56·6	+ 0·3	102	0	4	0·32	—	30·7	—	36	—	Wisley.
	a Swarraton .. M														38·2	—	44	—	Worthing.
	a Tunbridge Wells M	68	22nd	42	21st	64·3	48·3	55·9	+ 0·3	97	0	4	1·35	+ 0·79	28·7	- 6·9	33	- 8	Tunbridge Wells.
	a Dungeness	65	19, 20, 23rd	45	21st	62·9	50·6	56·9	- 0·8	104	0	5	0·67	+ 0·15	30·1	—	35	—	Littlestone.
	p Hastings	69	20th, 22nd	46	21st	65·1	52·9	58·7	+ 1·3	117	0	4	1·03	+ 0·38	*26·8*	*- 1·1*	*43*	*- 1*	*Hastings.*
	p Southampton ..	69	20th, 22nd	45	20th	65·9	51·4	58·3	+ 1·0	114	0	3	0·16	- 0·39	34·7	- 1·3	40	- 2	Southampton.
	a Ventnor	67	20th	50	21st	63·8	55·3	59·4	+ 0·6	122	0	4	0·21	- 0·41	32·2	- 6·4	37	- 8	Ventnor.
															39·7	+ 1·8	46	+ 2	Eastbourne.
LONDON	*a Westminster* ..	*68*	*22nd*	*45*	*21st*	*64·3*	*50·1*	*56·9*	+ *0·4*	*104*	*0*	*5*	*0·40*	*- 0·06*	*24·0*	*- 1·8*	*28*	*- 2*	*Westminster.*
	a Greenwich	*69*	*24th*	*41*	*21st*	*65·5*	*48·6*	*56·6*	*- 0·3*	*102*	*0*	*4*	*0·57*	+ *0·12*	*27·7*	*- 7·1*	*32*	*- 8*	*Greenwich.*
6.	*p* Laudale	70	23rd	39	21st	62·0	46·8	54·0	+ 1·1	84	0	3	0·26	- 1·43	*	*	*	*	
	a Poltalloch .. S	63	23rd, 25th	35	21st	60·0	43·7	51·5	- 1·8	67	0	3	0·20	- 0·94	*	*	*	*	
	p Glasgow	59	23rd, 25th	42	21st	57·1	46·5	51·6	- 0·8	67	0	3	0·37	- 0·40	10·5	-12·2	12	-14	Glasgow.
a, SCOTLAND. W. ..	*p* Rothesay .. S	62	20th	38	21st	59·0	46·9	52·7	- 0·5	75	0	3	0·43	- 0·57	*	*	*	*	
	a Kilmarnock	66	19th	34	20th	60·8	41·4	50·6	- 2·0	63	2	5	0·46	—	*17·9*	—	*21*	—	*Kilmarnock.*
	a Colmonell .. S	69	23rd	34	21st	63·1	43·2	52·7	- 1·0	75	0	2	0·62	- 0·34	*	*	*	*	
	p Dumfries .. S	66	25th	42	21st. 23rd	60·3	46·1	52·9	- 0·7	76	0	2	0·40	- 0·31	*22·9*	—	*27*	—	*Dumfries.*
	p Cally, Gatehouse S	67	25th	35	21st	62·6	42·3	52·0	- 0·4	70	0	3	0·29	- 0·63	*	*	*	*	
b, ISLE OF MAN ..	*p* Douglas														730·0	- 2·8	35	- 3	Douglas.
															35·8	—	42	—	Hoylake.
7.	*p* Aspatria	67	24th	41	21st	62·1	45·5	53·4	+ 0·8	80	0	2	0·39	- 0·49	27·1	—	32	—	Aspatria.
	p Newton Rigg ..	68	25th	39	19th, 23rd	62·2	43·4	52·4	+ 0·8	73	0	2	0·31	- 0·38	30·6	+ 2·7	36	+ 3	Newton Rigg.
	p Stonyhurst	62	24th, 25th	40	22nd	60·0	46·8	53·1	- 0·4	78	0	4	0·45	- 0·53	20·0	- 8·7	23	- 10	Stonyhurst.
a, ENGLAND, N.W...	*p* Blackpool .. M	65	24th	39	22nd	61·8	45·8	53·4	- 1·4	80	0	3	0·59	- 0·14	35·7	+ 6·7	42	+ 8	Blackpool.
	p M nch'ster, Prestwich	68	19th	40	22nd	62·0	47·5	54·4	+ 0·6	87	0	3	0·41	- 0·39	*13·5*	*- 11·8*	*16*	*- 14*	*Prestwich.*
	a Liverpool (Bidston)	64	24th	47	19, 22, 23rd	60·6	49·0	54·5	- 0·3	88	0	2	0·23	- 0·39	*32·3*	—	*38*	—	*Liverpool.*
	a Hawarden Bridge ..	66	22nd	41	19th, 20th	61·5	45·4	53·1	- 2·6	78	0	4	0·22	- 0·23	*34·1*	+ *4·4*	*40*	+ *5*	*Southport.*
															41·5	—	*48*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	65	19th	42	22nd	61·8	49·2	55·2	- 0·9	92	0	3	0·17	- 0·40	38·6	+ 9·0	45	+11	Llandudno.
	a Holyhead	67	23rd	44	22nd	62·4	49·6	55·7	+ 0·1	96	0	2	1·17	+ 0·51	41·9	—	49	—	Aberdovey.
	p Bettws-y-Coed ..	66	19th, 23rd	38	21st, 22nd	62·9	43·3	52·6	- 2·4	74	0	3	1·56	—	34·0	—	40	—	Bettws-y-Coed.
															34·5	—	40	—	Aberystwyth.
a, SOUTH WALES ..	*a* Llangammarch Wells	66	19th, 20th	30	21st	62·8	40·7	51·2	- 1·7	70	4	2	0·55	—	33·2	—	39	—	Llangammarch Wells.
	a Pembroke	62	20, 22, 25th	47	19th, 21st	61·3	49·7	55·2	- 0·8	92	0	3	0·19	- 0·51	35·5	+ 1·9	41	+ 2	Pembroke.
	a Cardiff	67	19th	43	19th	63·3	48·6	55·6	+ 0·4	95	0	3	0·70	- 0·13	*35·2*	—	*41*	—	*Cardiff.*
																			Tenby.
8.	*a* Clifton	67	22nd	45	19th	64·5	50·5	57·2	+ 0·8	106	0	3	0·86	+ 0·23	*29·7*	—	*35*	—	*Clifton.*
	a Shaftesbury .. M	68	22nd	47	20, 21, 22nd	63·7	49·9	56·5	+ 1·5	102	0	2	0·19	- 0·45	*	*	*	*	
	a Arlington	64	19, 20, 22, 23	41	19th	62·6	47·9	54·9	+ 0·6	90	0	3	0·87	- 0·23	27·7	- 7·3	32	- 9	Newquay.
b, ENGLAND, S.W. ..	*a* Cullompton .. M	72	19th	39	20th	67·8	47·6	57·2	+ 2·3	106	0	2	0·07	- 0·53	28·3	- 3·4	33	- 4	Cullompton.
	a Portland Bill ..	65	20th	52	19th, 21st	62·7	54·9	58·6	+ 0·8	116	0	2	0·03	—	*35·7*	—	*42*	—	*Weymouth.*
	p Plymouth	67	22nd	47	20th	64·1	51·3	57·4	+ 0·6	108	0	2	0·10	- 0·54	30·9	- 4·1	36	- 5	Plymouth.
	p Falmouth	65	20th	49	20th	62·6	52·4	57·3	+ 0·6	107	0	2	0·35	- 0·45	40·4	+ 4·4	47	+ 5	Falmouth.
															29·0	*- 7·4*	*34*	*- 9*	*Torquay.*
9. IRELAND, N.	*a* Malin Head	60	20th	44	23rd	57·6	48·7	52·9	- 1·1	76	0	3	0·25	- 0·45	*	*	*	*	
a, West.	*a* Blacksod Point ..	64	23rd	46	23rd	60·1	50·4	55·0	+ 0·9	91	0	3	0·48	- 0·50	*	*	*	*	
	p Markree Castle ..	68	19th	36	23rd	63·6	42·5	52·6	- 0·2	74	0	3	0·31	- 0·54	26·4	+ 1·4	31	+ 2	Markree Castle.
	a Birr Castle	68	23rd	39	23rd	62·9	48·1	55·1	+ 1·6	92	0	4	0·16	- 0·39	*18·2*	*- 11·0*	*21*	*- 13*	*Birr Castle.*
b, East.	*p* Armagh	67	19th	39	23rd	62·4	45·6	53·6	+ 0·5	81	0	2	0·35	- 0·26	33·1	+ 6·7	39	+ 8	Armagh.
	a Donaghadee	68	19th	46	21st, 22nd	61·6	49·3	55·2	+ 0·9	92	0	2	0·47	- 0·15	*	*	*	*	
10. IRELAND, S.	*p* Dublin, City.. ..	65	19th	44	21st, 23rd	60·8	48·1	54·2	- 1·1	85	0	2	0·07	- 0·43	27·0	- 5·5	31	- 6	Phœnix Park.
a, East.	*a* Kilkenny	69	19th	38	23rd	62·3	47·0	54·8	+ 0·6	90	0	4	0·42	- 0·15	*	*	*	*	
	a Waterford	64	24th, 25th	41	23rd	60·9	48·9	54·6	0·0	88	0	4	0·68	0·00	*	*	*	*	
	a Birr Castle	68	23rd	39	23rd	62·9	48·1	55·1	+ 1·6	92	0	4	0·16	- 0·39	18·2	-11·0	21	-13	Birr Castle.
	a Foynes	63	24th	42	23rd	61·1	51·2	55·9	+ 1·2	97	0	5	0·10	- 0·60	*	*	*	*	
b, West.	*a* Cahir .. .. M	70	19th	38	23rd	62·0	48·3	54·8	+ 0·2	90	0	5	0·40	—	*	*	*	*	
	a Killarney	72	19th	46	23rd	63·5	52·2	60·0	+ 5·4	126	0	2	0·27	- 0·65	*	*	*	*	
	a Valencia	66	19th, 25th	43	21st	63·3	48·0	55·3	- 0·5	93	0	2	0·04	- 0·96	43·0	+13·0	50	+15	Valencia.
	a Roche's Point ..	62	19, 22, 23, 25	49	20th, 21st	60·9	51·4	55·9	0·0	97	0	6	0·31	- 0·43	26·0	—	30	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	65	25th	53	20th	62·4	54·9	58·5	+ 0·3	116	0	2	0·14	- 0·50	52·2	+14·0	61	+16	Scilly.
	a Jersey, St. Aubins ..	71	22nd	46	20th, 21st	67·6	51·1	59·0	- 0·8	119	0	2	0·04	- 0·62	58·9	+17·7	69	+21	St. Heliers.
	a Guernsey	74	22nd	51	20th	69·8	54·5	61·8	+ 2·6	139	0	2	0·02	- 0·72	57·4	+18·0	67	+21	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 36·6 hrs.* (- *0·8 hrs.*), *43* % (- *1* %); *Bournemouth, 30·6 hrs., 36* %; *Bognor, 36·3 hrs.*.42 %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	51·1	—
1.	Aberdeen	—	—	—	51·7
	Crathes	1	30	53·2	53·3
	Balmoral	1	30	—	—
	West Linton	2	30	—	—
	Marchmont	0	36	51·7	—
2.	Cockle Park	0	39	51·1	51·8
	Durham	0	34	—	—
	York	—	—	55·3	55·2
	Hull	0	36	55·0	55·0
	Lincoln	—	—	55·4	55·6
	Rauceby	0	39	56·5	55·4
3.	Norwich	—	—	—	—
	Yarmouth	—	—	57·9	57·7
	Lowestoft	0	40	57·9	57·5
	Cambridge	1	27	57·2	57·0
	Clacton-on-Sea	0	26	58·0	58·0
	Southend	0	46	59·1	—
	Tottenham	0	36	—	58·1
4.	Harrogate	0	34	53·0	53·0
	Huddersfield	0	32	53·8	53·4
	Buxton	0	34	53·3	52·8
	Sheffield	0	31	53·6	53·9
	Nottingham	0	41	55·3	55·7
	Birmingham	1	29	52·3	52·1
	Oxford	0	—	—	—
	Hereford	1	26	—	—
	Cirencester	1	29	—	—
5.	Margate	0	45	57·4	56·7
	Greenwich	1	30	—	—
	Westminster	0	40	—	—
	Kew	0	34	56·6	56·3
	Canterbury	0	37	56·5	56·8
	Tunbridge Wells	0	38	57·4	—
	Wisley	0	33	56·4	56·8
	Worthing	0	42	58·8	58·0
	Portsmouth	0	40	58·4	58·3
6.	Glasgow	0	33	—	—
	Rothesay	—	—	—	52·8
	Colmonell	0	31	—	—
	Dumfries	0	39	53·7	54·7
	Douglas				
7.	Aspatria	0	32	—	—
	Newton Rigg	0	32	54·0	53·5
	Burnley	1	29	52·1	52·2
	Southport	1	28	55·5	56·4
	Manchester City	2	27	53·8	55·6
	Bettws-y-Coed	0	37	51·7	52·7
8.	Llangammarch Wells	1	25	53·7	54·0
	Cardiff	0	37	55·8	55·7
	Clifton	0	41	—	—
	Bath	—	—	57·6	58·3
	Plymouth	0	39	57·3	—
9.	Armagh	0	33	55·3	55·1
	Markree	0	32	56·8	55·9
10.	Dublin, Trin. Coll.	0	36	55·0	55·0
11.	Guernsey, Brooklyn	0	43	60·4	60·0

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	52	51	51·2
	Kirkwall	54	52	52·6
	Wick	52	52	52·0
SCOTLAND, E.	Cromarty	54	53	53·7
	Pennan Bay	54	51	52·6
	Aberdeen, Cove Bay	55	53	54·5
ENGLAND, N.E.	Burnmouth, Berwick	54	51	52·8
ENGLAND, E.	Scarborough	57	51	53·8
	Shipwash Lightship	60	58	59·2
ENGLAND, S.E.	Margate‡	60	59	59·9
	Eastbourne‡	60	59	59·4
SCOTLAND, W.	Lamlash	57	55	55·9
	Ballantrae	56	54	54·9
ENGLAND, N.W.	Port Erin	57	55	55·1
ENGLAND, S.W.	Newquay	60	59	59·6
	Plymouth‡	59	58	58·6
	Salcombe	60	57	58·8
IRELAND, N.W.	Sheephaven	57	56	56·8
	Teelin	59	54	57·4
IRELAND, S.W.	Cleggan	56	53	55·2
	Seafield	59	55	57·7
IRELAND, E.				

‡ Only one observation each day.

Additional Ascents from the Howard Estate Observatory, Glossop.

Date 1909.	Time.	Maximum height. Metres.	Apparatus used.
September 21st.	10.25 a.m.	1,740	Pilot balloon.
" "	Noon.	1,840	" "
" "	5.25 p.m.	1,580	" "
September 22nd.	12.30 p.m. to 2. 4 p.m.	700	Two kites on one wire.
" "	5.10 p.m. to 5.30 p.m.	3,350	Pilot balloon.
" "	6.20 p.m. to 8. 2 p.m.	840	Two kites on one wire.
September 23rd.	2. 0 a.m. to 2.55 a.m.	640	Kite.
" "	5.51 a.m. to 7.45 a.m.	1,530	Two kites on one wire.
" "	4.23 p.m. to 5.30 p.m.	920	Kite.
" "	5.34 p.m. to 6.25 p.m.	850	"
September 24th.	1. 4 p.m. to 2.53 p.m.	1,400	Two kites on one wire.
" "	6.39 p.m. to 8.23 p.m.	1,050	" "
September 25th.	12.45 p.m. to 1. 0 p.m.	2,000 (approx.)	Pilot balloon.

CORRECTIONS AND ADDITIONS FOR AUGUST, 1909.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

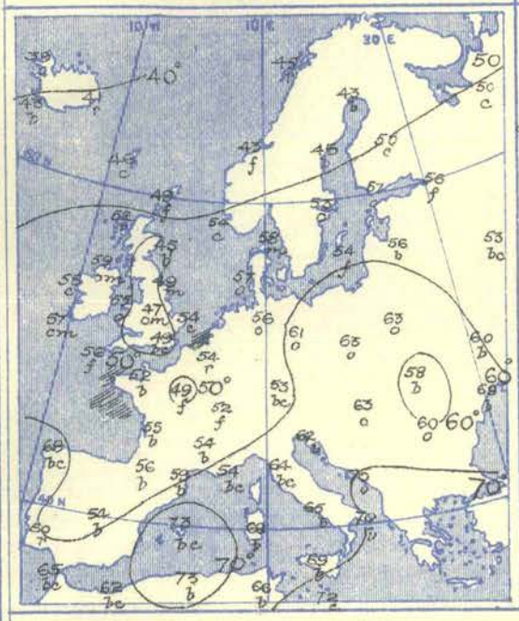
NUMBER AND PAGE OF REPORT.	NUMBERS OF DISTRICTS AND NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week, Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Daily Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 31, p. 250	4. Midland Counties.	—	—	—	—	—	—	—	—	—	—	—	0·42	-0·14	—	—	—	—
No. 32, p. 258	7. England, N.W.	—	—	—	—	—	54·0	61·4	+2·8	136	—	—	—	—	—	—	—	—
Station Values.— Additions.																		
No. 31, p. 251	Harrogate	79	6, 7	46	3rd	68·2	49·8	58·5	+0·9	116	0	2	0·70	+0·12	44·6	—	41	—
No. 31, p. 251	Buxton	77	6th	42	3rd	68·5	48·2	57·7	+1·0	110	0	1	0·26	-0·70	47·0	—	44	—
No. 31, p. 251	Raunds	80	5, 7	—	—	71·5	—	59·4	-1·5	122	0	1	0.66	—	—	—	—	—
No. 31, p. 251	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	56·9	—	52	—
No. 34, p. 275	Aberdovey	—	—	—	—	—	—	—	—	—	—	—	—	—	25·8	—	26	—
Station Values.— Corrections.																		
No. 30, p. 243	Durham	—	—	—	—	62·9	—	56·0	-2·7	98	—	—	—	—	—	—	—	—
No. 31, p. 251	Hillington	—	—	—	—	—	—	—	—	—	—	2	1·70	+1·05	—	—	—	—
No. 31, p. 251	Aspatria	—	—	—	—	66·0	—	57·4	+0·7	108	—	—	—	—	—	—	—	—
No. 31, p. 251	Llandudno	—	—	50	6th, 7th	—	51·4	58·5	-1·0	116	—	—	—	—	—	—	—	—
No. 31, p. 251	Bettws-y-Coed	—	—	—	—	68·4	—	57·5	-1·4	109	—	—	—	—	—	—	—	—
No. 32, p. 259	Wick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 32, p. 259	Hillington	—	—	—	10, 11	—	50·9	62·6	+2·7	144	—	4	0·33	-0·32	—	—	—	—
No. 32, p. 259	Llandudno	—	—	52	—	—	55·1	62·2	+2·8	141	—	—	—	—	58·8	+16·4	56	+15
No. 33, p. 267	Balta Sound	—	—	—	—	—	47·9	52·3	—	72	—	—	—	—	—	—	—	—
No. 33, p. 267	Sumburgh Head	—	18, 19	—	—	60·1	—	53·4	+1·2	80	—	—	—	—	—	—	—	—
No. 33, p. 267	Castlebay	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 33, p. 267	Scarborough	—	—	—	—	—	—	—	—	—	—	—	1·98	+1·35	38·5	—	36	—
No. 33, p. 267	Hereford	—	—	—	—	70·1	—	61·1	+1·7	138	—	—	—	—	27·9	—	27	—
No. 33, p. 267	Holyhead	—	—	—	—	62·1	—	58·0	-0·9	112	—	—	—	—	—	—	—	—
No. 33, p. 267	Bettws-y-Coed	—	—	—	—	—	53·1	59·2	+0·3	120	—	—	—	—	—	—	—	—
No. 33, p. 267	Portland Bill	68	—	—	—	64·0	—	61·3	+0·4	135	—	—	—	—	—	—	—	—
No. 33, p. 267	Plymouth	—	—	52	17, 21	—	57·2	62·4	+2·0	143	—	—	—	—	—	—	—	—
No. 33, p 267	Scilly	—	—	—	—	66·3	—	62·4	+1·7	143	—	—	—	—	—	—	—	—
No. 34, p. 275	Scarborough	—	—	—	—	—	—	—	—	—	—	—	—	—	19·4	—	19	—
No. 34, p. 275	Hillington	68	28th	—	—	64·0	—	56·2	-2·7	99	—	—	—	—	20·1	-12·1	20	-19
No. 34, p. 275	Glasgow	—	—	—	26th	—	49·5	54·3	-1·5	86	—	—	—	—	—	—	—	—
No. 34, p. 275	Kilmarnock	64	25, 27	—	—	61·3	—	53·1	-2·8	78	—	—	—	—	—	—	—	—
No. 34, p. 275	Llandudno	—	—	48	28th	—	52·1	56·9	-2·2	95	—	—	—	—	—	—	—	—
No. 34, p. 275	Pembroke	—	—	—	—	—	—	—	—	—	—	—	0·29	-0·38	—	—	—	—
No. 35, p. 288	West Linton	—	—	—	—	—	41·4	48·3	-5·3	47	2	—	—	—	—	—	—	—

Station Values.— Additions.		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
No. 31, p. 252	Harrogate	0	44	55·4	53·6
No. 31, p. 252	Buxton	0	41	57·7	52·6

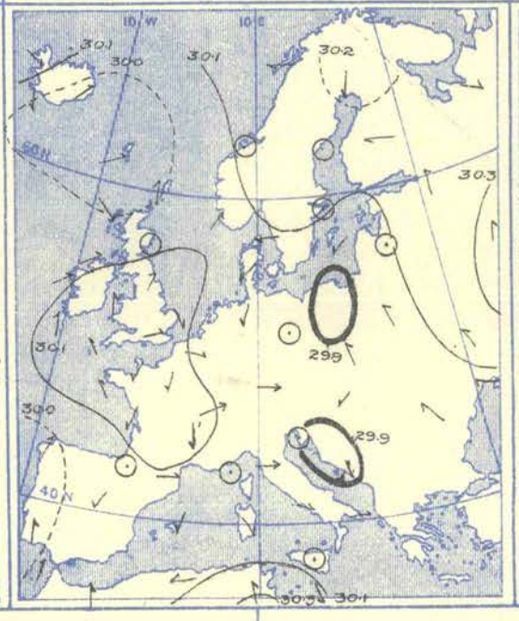
Station Values.— Additions.		Temperature of the Sea. Highest.	Lowest.	Mean
No. 32, p. 260	Eastbourne	66	64	65·0

Sunday, 19th September, 1909.

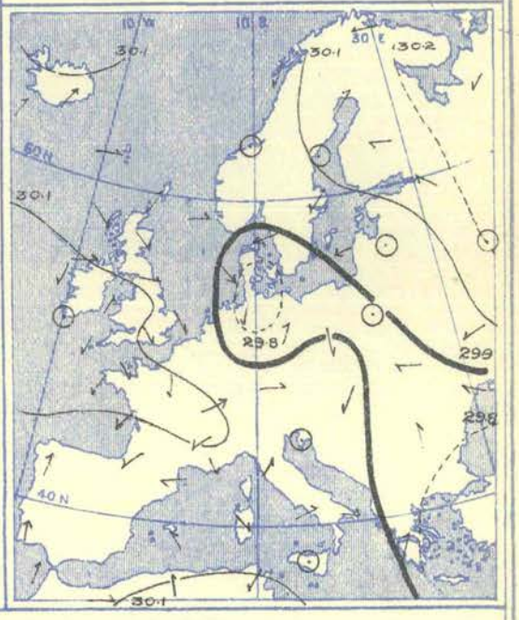
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast, with rain in places, over Germany and the Baltic, but fair or fine and bright in nearly all other regions. Heavy rain later over a large part of central Europe, Denmark, and the south of Scandinavia, and some smaller amounts in various parts of these Islands.

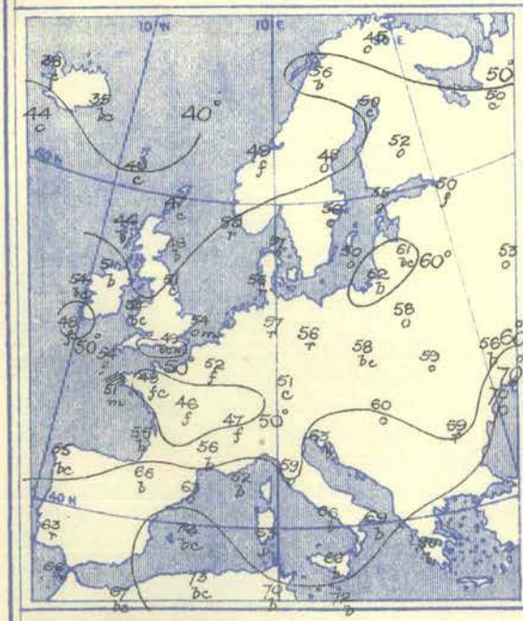
Temperature changed rather irregularly; fallen over England. Readings in morning above 70° at a few stations in the far south of our area, but below 55° over a large portion of northern Europe and these Islands, as well as at Madrid and in various French localities. Maxima during day above 65° in many parts of the United Kingdom, as high as 70° at St. Petersburg, and between 70° and 80° over the south of our area generally; thermometer rising to 86° at Bucharest, and to 88° at Tunis.

Wind in morning showing cyclonic movements over the central countries, and an anticyclonic circulation over England and Ireland. Scarcely any stations reporting a stronger force than a moderate breeze. Cyclonic movement becoming more pronounced later over Denmark and the surrounding regions, but no great change taking place over our area as a whole.

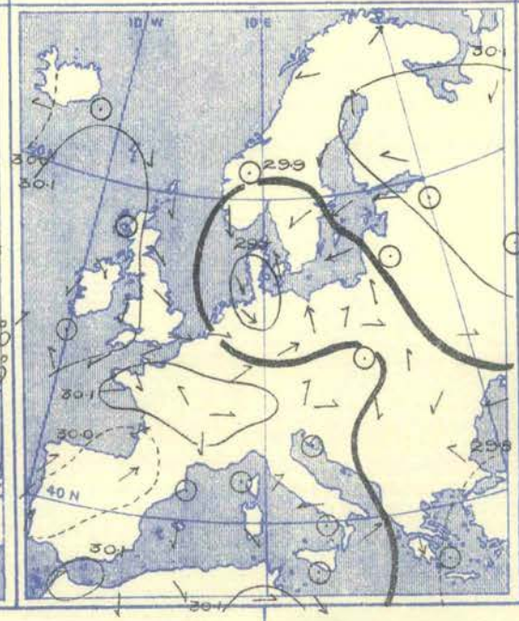
Barometer in morning above 30·3 ins. over central Russia, and high both in the extreme south and north of our area; relatively high over this country and France. Low over the whole of central and south-eastern Europe, and also in a large, shallow disturbance between Scotland and Iceland. A minimum over Germany increasing in intensity and moving northward to Denmark during day. Pressure decreasing over this country and the North Sea.

Monday, 20th September, 1909.

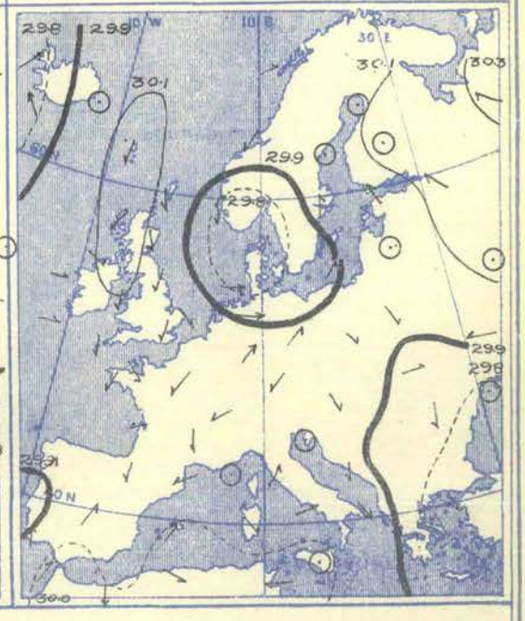
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast, with rain in places, over Denmark and the regions surrounding, and rain falling at Hermanstadt and in the south-west of the Spanish Peninsula also. Fair to fine in almost all other parts of our area. More than an inch of rain falling later at San Fernando, various quantities in the central and northern countries of the Continent, and as much as 1·7 in. at Karlstad.

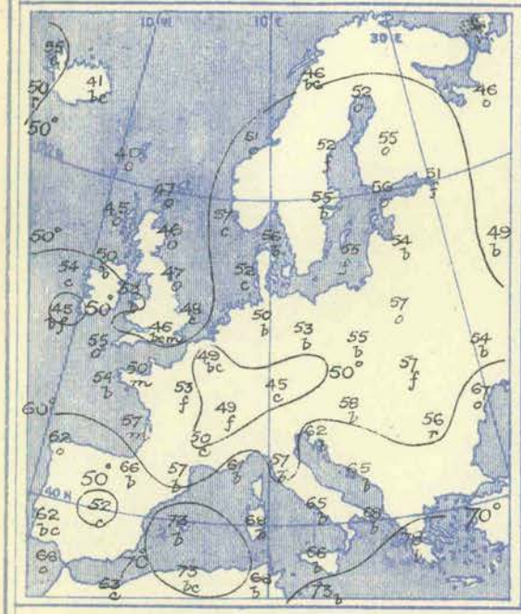
Temperature fallen in most regions. Morning readings below 50° at several northern stations and also in various parts of France, above 60° at Riga and Memel, and between 60° and 70° very generally over the Mediterranean region. Above 70° in places, and as high as 80° at Patras. Rising during day to 70° at Bournemouth, but remaining below 65° over these Islands generally, as well as at many German and Austrian stations. Maxima between 70° and 80° at most stations in the south of our area, but as high as 89° at Patras.

Wind in morning light or moderate from no general direction over our area as a whole, but showing a well-marked cyclonic circulation over Denmark and its neighbourhood; North-Westerly current strong on the coast of Jutland and at the mouth of the Elbe. Decreasing in force by evening, and backing to West both at Fanö and Cuxhaven. Increasing to a high wind between South-East and South-West over the west of Iceland; becoming more Northerly over the United Kingdom,

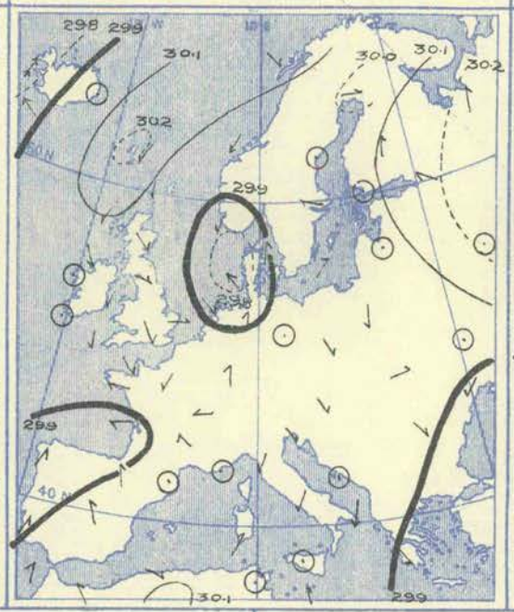
Barometer in morning below 29·7 ins. in a depression having its centre over Denmark; above 30·1 ins over the greater portion of Russia, and also over Ireland and the nearer parts of the Atlantic, and in a band stretching from Brittany to Bavaria. Depression moving northward later and apparently becoming rather less deep. Pressure decreasing briskly in Iceland, and slowly in Ireland and the southern half of England. Barometer rising briskly and becoming highest in the far north of Russia.

Tuesday, 21st September, 1909.

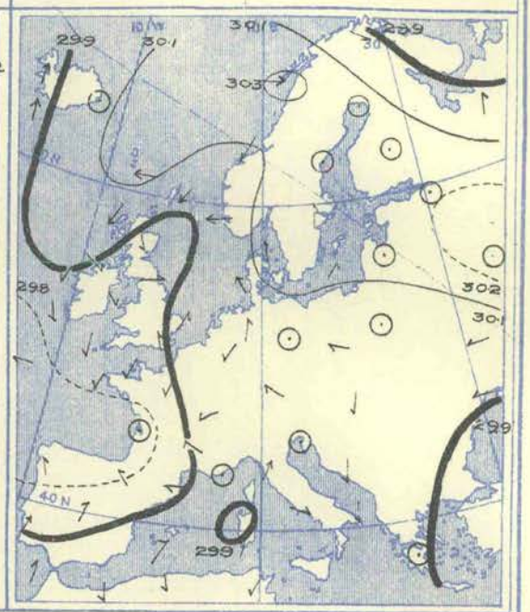
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very variable, from fine and bright to overcast over the British Islands, with local drizzle at Roche's Point and fog at Valencia; misty or foggy, but otherwise fine, in France and Germany. Dull in northern Russia, but fine and bright over the eastern and southern parts of that country as well as over the Mediterranean region, rain falling at Cracow and Hermanstadt. Rain falling during day in Scotland and northern England as well as in the south of Ireland and the south-midland counties of England; largest amount 0·5 in. at Leith. Rain in scattered localities on the Continent also, heaviest fall ⅔ in. at Belfort.

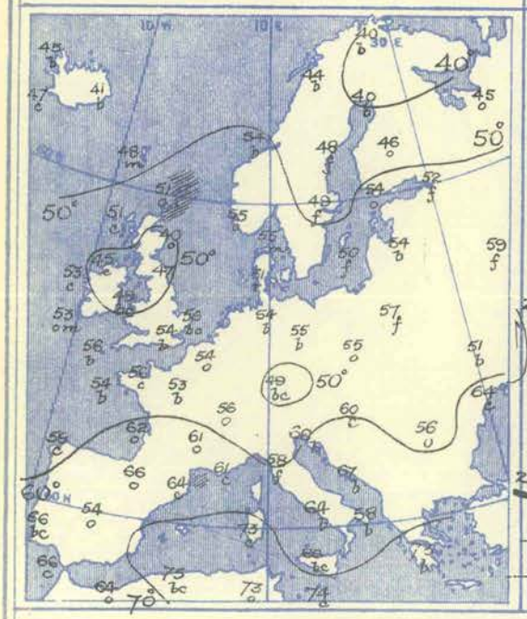
Temperature fallen over these Islands and the Continent as a whole. Morning readings below 50° over the larger part of Britain as well as over eastern France, western Germany, and eastern Russia, above 60° over the southern countries, and above 75° in Greece. Maxima during day mostly below 60° over Scotland and the eastern parts of Ireland and England, but 67° at Jersey, and above 70° in the south of France; between 80° and 90° at many of the Mediterranean stations.

Wind showing a cyclonic circulation over the countries bordering on the North Sea, light in force generally, but fresh from North-West at the Helder, and strong from South-East at Fanö. Variable over our western districts and also on the Continent. Increasing to a gale from East at Skudesnaes by evening, and North-Easterly current becoming more decided over Scotland; little change elsewhere.

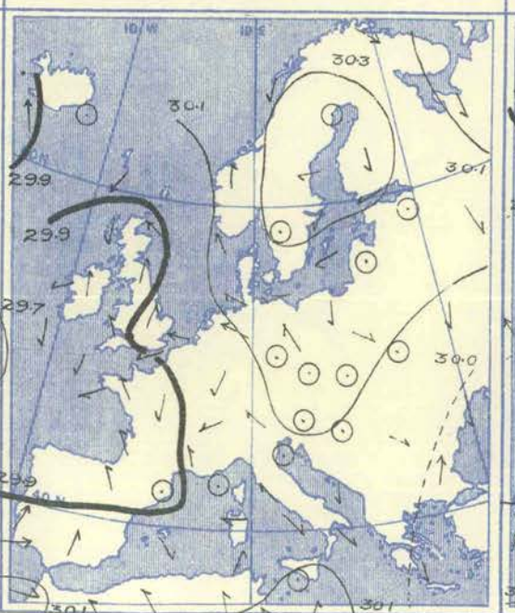
Barometer in morning highest, about 30·2 ins. in the Faroe region and also over eastern Russia. Lowest, 29·8 ins. and less, in a depression over the North Sea, and about the same value in the west of Iceland, 29·9 ins. and less in shallow disturbances lying over south-western and south-eastern Europe. Mercury falling in all parts of western Europe during day, and depression over the North Sea approaching the coast of Scotland; high pressure near Faroe transferred to the north of Norway.

Wednesday, 22nd September, 1909.

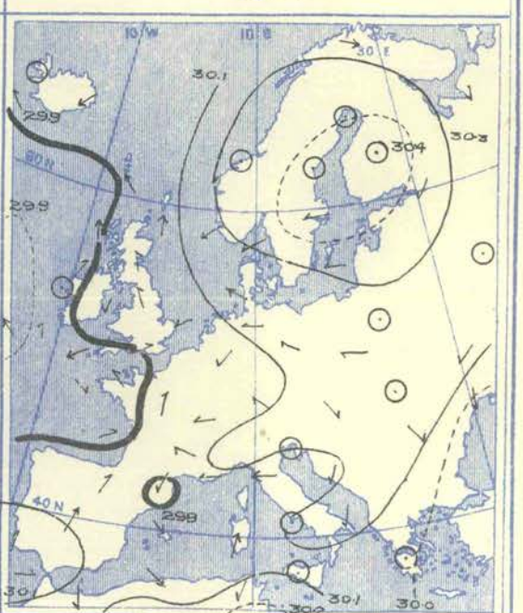
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over south-eastern England, but cloudy to overcast over our Islands as a whole, with slight rain at Birr Castle and St. Anns Head; variable from fine and bright in some localities on the Continent to overcast in others, with rain locally at Fanö, Le Mans, and Lugano; foggy on the Baltic and in a few other localities. Thunderstorms occurring later over south-eastern England, and slight rain over the northern parts of these Islands. Heavy rain with local thunderstorms in different parts of the Continent, over an inch at Lugano and Turin, and 1½ in. at Nice.

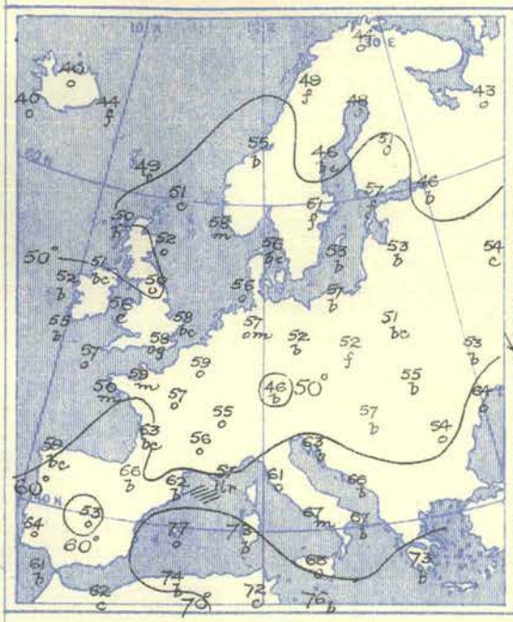
Temperature fallen over northern Europe, risen in most parts of these Islands and France as well as on the southern shores of the Mediterranean, changed irregularly elsewhere. Morning readings mostly below 50° over northern Europe and the northern parts of these Islands, above 60° over the southern countries, and above 70° over the southern Mediterranean. Rising to nearly 70° during day over the south-midlands, and to 71° at Jersey; in the south of France to 70° and upwards, and at some stations in Algeria and Italy to 80° and upwards.

Wind in morning generally light or moderate from some Easterly point over the British Islands and the neighbouring continental countries, light or moderate from South or South-West over the Spanish Peninsula and Algeria; calm or light variable over central and eastern Europe. Wind veering to North-West in Algeria later in day and becoming more Southerly in Ireland and Scotland; little change elsewhere.

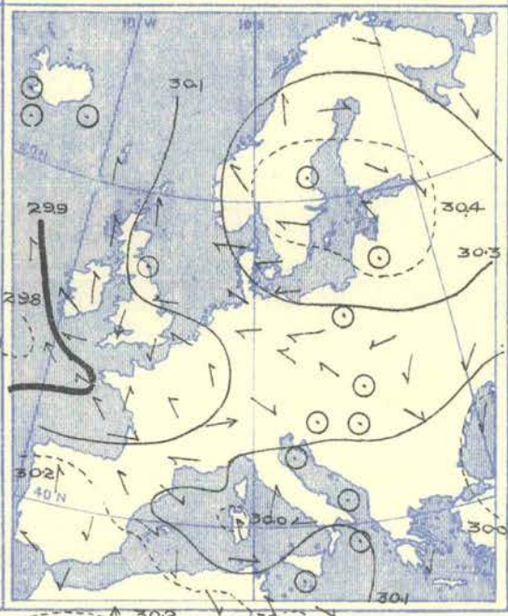
Barometer at 7.0 a.m. highest, 30·3 ins. and upwards, in an anticyclone over Sweden, the Gulf of Bothnia and Finland; relatively high, above 30·1 ins. in two systems in the extreme south of our area. Lowest, 29·8 ins. and less, off our north-western and south-western coasts. Northern anticyclone increasing somewhat in intensity during day, and barometer rising generally; rise very slight, however, over the English Channel region.

Thursday, 23rd September, 1909.

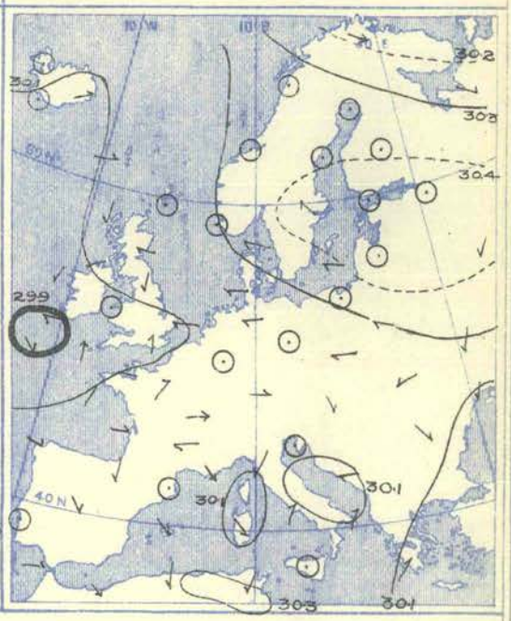
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fine and bright in Ireland and the west of Scotland, cloudy or dull in most other parts of our Islands, with mist or fog in many places; fair or fine as a whole, but with local fog, on the Continent also; rain falling at Lugano, Turin, and some of the French stations, a thunderstorm in progress at Nice. Thunderstorms occurring during day over a large part of these Islands, and rain falling in various Continental localities—heaviest falls, 0·9 in. at Leghorn, and 1·3 in. at Hermanstadt.

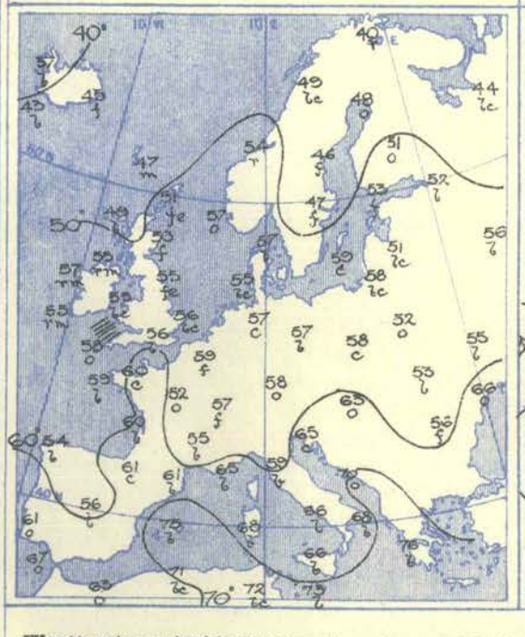
Temperature fallen over the central parts of Ireland and Scotland, risen slightly over the British Islands generally and the nearer regions of the Continent, fallen over the eastern countries and also in southern Spain and Algeria. Morning readings ranging from below 50° over central Scotland and northern Russia to above 60° over the southern Continental countries, and to above 70° at many Mediterranean stations. Rising to about 65° over our southern districts during day, and touching 70° at Margate; above 70° on the Continent generally, and above 80° at some stations in the south.

Wind light or moderate from the Eastward in most parts of north-western and central Europe, but Southerly on our extreme north and north-west coasts. Mostly South-Westerly over the Bay of Biscay region, variable over the Mediterranean. Veering to the Southward or South-Westward later over the south of England; not much change elsewhere.

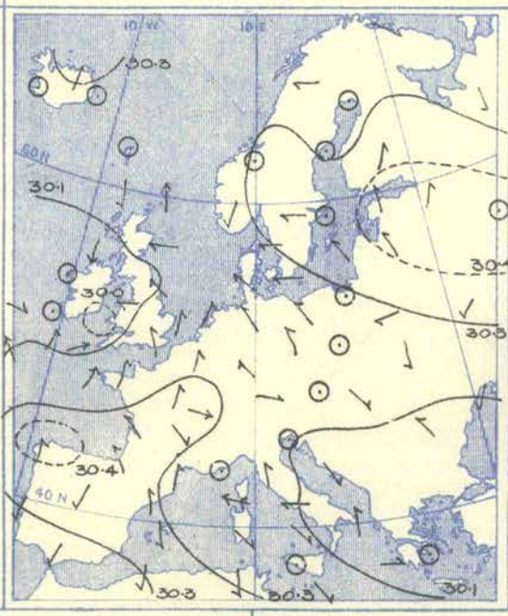
Barometer in morning highest, 30·4 ins. and upwards, in an anticyclone lying over northern Europe; relatively high, 30·2 ins. and upwards, over Spain and Algeria. Lowest, 29·9 ins. and less, in a depression off our south-west coasts, and about 30·0 ins. in a shallow system over Corsica. No change in the distribution of pressure during day, but barometer rising over western Europe generally.

Friday, 24th September, 1909.

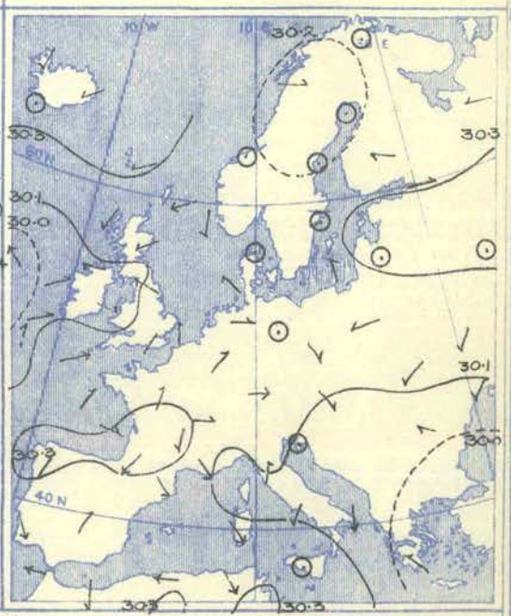
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fair or fine over the greater part of England, but showery at Pembroke; rainy in the west of Ireland, and a thick wet fog prevalent in Scotland; fair or fine over the Continent as a whole, but foggy in places, and rain locally at Vardö, Christiansund, and L'Orient. Thunderstorms during day in various parts of north-western and central Britain as well as at Frankfurt, measurement of rain at Holyhead 0·9 in.; rain also falling in various other parts.

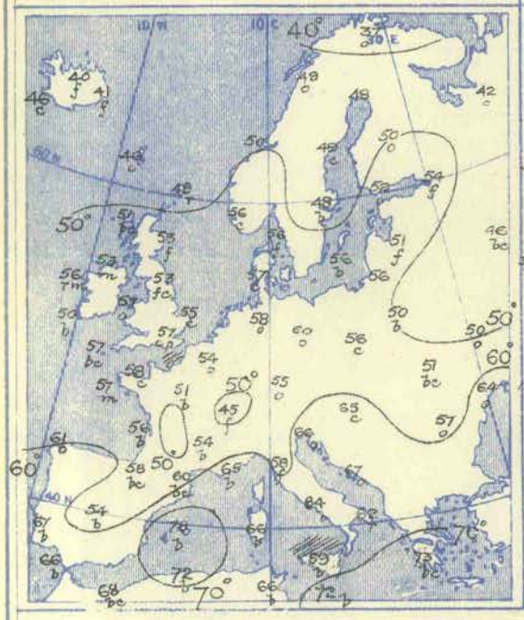
Temperature risen in most parts of these Islands, changed irregularly on the Continent. Morning readings below 50° at many Scandinavian stations, between 55° and 60° over our Islands generally and central Europe, and between 65° and 75° over the Mediterranean region. Maxima between 65° and 70° over the south-east of England during day, above 70° in the south of France, and above 80° at one or two Mediterranean stations.

Wind in morning showing a cyclonic circulation over our south-western districts; Southerly to South-Easterly over Britain generally, South-Westerly over the Channel and Bay of Biscay, but variable over the Continent; light to moderate in force generally. No important change during day.

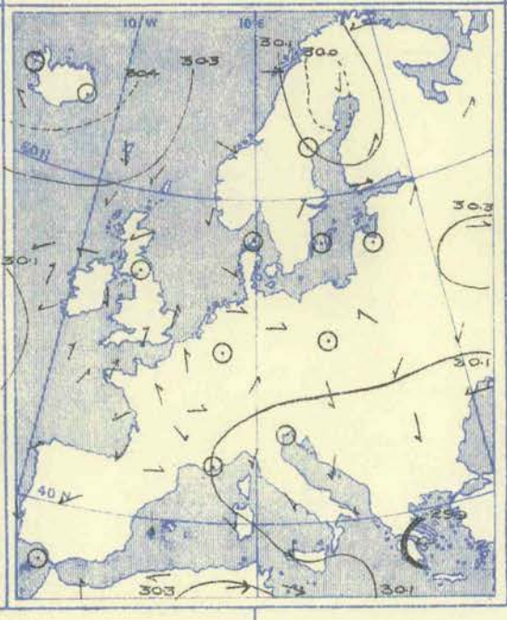
Barometer at 7.0 a.m. highest, 30·4 ins. and upwards, over central Russia, and about the same value in the north of Spain. Lowest, 30·0 ins. and less, in a depression over the St. George's Channel, and 30·1 ins. and less, in a shallow system over south-eastern Europe. Low pressure in the south-west becoming less well defined by evening; barometer rising slightly in our Islands, falling on the Continent.

Saturday, 25th September, 1909.

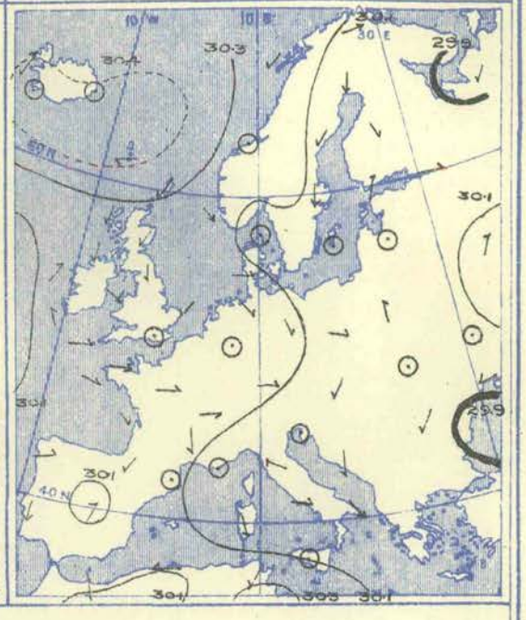
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in most parts of southern Europe as well as in a few other parts of the Continent, cloudy or dull over north-western Europe as a whole, with a good deal of mist and fog over our Islands and over the Baltic region; rain in the north of Finland, at many of our own stations, and locally at Christiansund, Frankfurt and Brindisi. Rain in many parts of Great Britain during day, and thunderstorms in the south-east of England; rain in scattered places on the Continent.

Temperature fallen in most parts of our area; morning readings ranging from 37° at Vardö and below 50° over northern Europe generally to about 55° in most parts of the British Islands, to above 60° in the southern countries, and to above 70° at some Mediterranean stations. Maxima about 65° at some of our south-western stations during day, above 70° in many Continental districts, and above 80° in places.

Wind in morning light Easterly in the north of Scotland, and South-Westerly light or moderate, over the south of England and north of France; very variable on the Continent generally. Becoming Southerly by evening in the south of Ireland; little change elsewhere.

Barometer at 7.0 a.m. highest, 30·4 ins. and upwards, in the Icelandic region, 30·3 ins. in eastern Russia, and about 30·2 in. over France and the Peninsula. Lowest, below 30·0 ins., over the northern part of the Gulf of Bothnia and also over south-eastern Europe. Pressure much lower over the Atlantic, 29·5 ins. and less, in lat. 50° N., long. 25° W. Depression in north moving eastwards during day; very little alteration elsewhere.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). *See* also p. 308.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1909.												
1	Sept. 20th, 3.10 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	234·5° 75% 312°, 1	—° —% 311°, 6	—° —% 310°, 7	—° —% 332°, 6	—° —% 338°, 6	—° —% 335°, 6		—° —% 335°, 5	2,140	Fine. Light air. Clouds, Cu. and Ci. 8.
2	Sept. 21st, 3.54 p.m. to 4.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 90% 225°, 4	282° 84% 245°, 1	281° 82% 248°, 2					280° 80% 250°, 3	710	Overcast and dull. Calm. Clouds, Cu. 10, and misty.
3	Sept. 22nd, 8.25 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 100% 157°, 4	282° 100% 160°, 7	281·5° 100% 165°, 8	279° 80% 170°, 15	278°, 5 70%			278·3° 70%	1,530	Dull and wet, fine later. Gentle breeze. Clouds, Ni. 10 to Cu. 9. Kite dived down.
4	Sept. 23rd, 8.23 a.m. to 10.50 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	286° 94% 101°, 6	287° 85% 102°, 13	288° 79% 102°, 14	286° 77% 104°, 12	282° 88% 115°, 11	278° 91% 115°, 11		276·5° 94% 115°, 11	2,200	Fine at first. Thunder and rain during descent and rest of day. Clouds, Cu. and Ci. 7 to Ni. and Cu.-Ni. 10. The temp. rose up to 1,700 m., and afterwards fell steadily.
5	Sept. 24th, 10.3 a.m. to 10.50 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	290° 75% 190°, 6	288·5° 75% 190°, 9	287° 85% 195°, 14	283·5° 100% 200°, 16				281° 100% 200°, 17	1,300	Overcast, heavy cumulus clouds. Cloud level, 800 m.
6	Sept. 24th, 10.50 a.m. to 11.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	291° 70% 190°, 6	289° 70% 190°, 9	287·5° 75% 195°, 14	283·5° 95% 200°, 16				281° 95% 200°, 17	1,230	Clear or very nearly so. Kite sent up again to ascertain what difference of temp. occurred.
7	Sept. 24th, 3.35 p.m. to 5.50 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	286° 87% 150°, 3	285° 87% 151°, 5	284° 87% 151°, 6	281° 92% 152°, 12	279° 89% 170°, 11			279° 89% 170°, 11	1,520	Fair to fine. Gentle breeze. Clouds, Cu. and Ci. 5.
8	Sept. 25th, 11.30 a.m. to noon.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287·5° —% 22°, 1	—° —% 67°, 1	—° —% 65°, 1	—° —% 24°, 2	—° —% 80°, 4	—° —% 56°, 2	—° —% 36°, 3	—° —% 12°, 3	2,900	Fine. Light air. Clouds, Cu. and Ci. 7.
9	Sept. 25th, 2.40 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	288° 90% 256°, 8	286·5° 90% 255°, 10	283° 95% 265°, 10	282° 80?% 275°, 10				282°? 80?% 280°, —	1,200	Overcast. Scud, 350 m. Clearing and showing St.-Cu. Clock stopped for a time. Very small change of temp. or humidity above 600 m.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9
No. of Kites or Balloons	1	1	1	3	1	1	2	1	2
Area of Surface (sq. metres) ..	—	—	8·5	20	7	7	—	—	9·5
Capacity of Balloon (cu. metres)	·15	1	—	—	—	—		·15	—
Length of Wire (metres)	—	450	2,000	4,100	1,600	1,400	—	—	2,100

63, Victoria Street, London, S.W. *September 29th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 39. THIRTY-NINTH WEEK, SUNDAY SEPTEMBER 25TH TO SATURDAY OCTOBER 2ND, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—The general condition was very unsettled, the sky being generally cloudy or overcast and rain falling every day in some part of the Kingdom, and frequently in all districts. Large quantities of rain were experienced in North Wales on Monday, and in South Wales and the south-west of England on the following day.

Temperature was above the average generally, but below it in Scotland N. and E., and England S.E., and just equal to it in England E. The highest of the maxima were recorded very generally on Saturday. They ranged from 72° in Ireland S. (at Killarney on Sunday) and 70° in the Midland Counties (at Bawtry on Saturday) to 62° in Scotland N. The lowest of the minima, which were registered during the earlier half of the week, ranged from 31° in Scotland E. (at West Linton on Thursday) and 34° in England N.E. to 42° in the Midland Counties and to 45° in the English Channel. The lowest grass readings reported were 27° at West Linton, 31° at Aspatria, 32° at Crathes, and 33° at Birmingham, Hereford and Glasgow.

Mean Temperature of the Sea.—On most parts of the coast the water was colder than during the corresponding week of last year. The actual means for the period ranged from about 59° on the south and south-east coasts of England to between 52° and 53° at most places on the north-east coast of Great Britain, and to 51° at Lerwick.

Rainfall was much in excess of the average over Ireland and the greater part of England, but was considerably less in Scotland and rather less in England E. Falls of more than an inch in twenty-four hours were common in Wales, southern Ireland and the south-western and southern counties of England early in the week, and also in the Isle of Man. Among the heaviest falls reported were, on Monday 1·45 inch at Kilkenny, 1·31 inch at Bettws-y-Coed, 1·14 inch at Waterford and 1·10 inch at Hoylake; and on Tuesday 2·34 inches at Arlington, 2·14 inches at Ilfracombe, 1·97 inch at Cardiff, 1·85 inch at Southampton, 1·56 inch at Hereford, 1·35 inch at Portsmouth, and 1·30 inch at Llangammarch Wells. At Douglas (Isle of Man) an inch was measured on both days.

Bright Sunshine.—In all districts except Scotland N. the records were considerably below the normal. The percentage of the possible duration ranged from 26 in Scotland N., 19 in the English Channel and 18 in England S.W., to 7 in Scotland W. and Ireland N.

Barometer and Wind.—During the greater part of the week the distribution of pressure was irregular, and the wind light and rather variable. At first an anticyclone extended over Great Britain from the north, but as this dispersed shallow depressions spread over the Kingdom from the south-westward and westward, the wind being mainly Southerly in the southern parts of the Kingdom but Easterly in the north. By Saturday morning the passage of a large and deep cyclonic system from west to east over the Icelandic region brought about a more normal distribution of pressure, and the wind became generally Southerly to South-Westerly. Quite at the end of the week a disturbance of a secondary nature was encroaching on our western districts from the Atlantic.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 316.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual	Unusual	Moderate
	Rainfall ...	Light	Moderate	Moderate	Moderate	Heavy	Heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Moderate
	Sunshine ...	Moderate	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 4 weeks from Sept. 5th, 1909.	Warmth ...	0 * 2	0 * 2	0 * 2	0 * 1	0 * 1	0 * 2	0 * 2	0 * 2	0 * 2	1 * 2	1 * 2	0 * 1
	Rainfall ...	0 * 3	2 * 1	0 * 0	1 * 0	1 * 0	2 * 0	0 * 1	1 * 1	1 * 1	1 * 2	1 * 3	1 * 1
	Sunshine ...	1 * 1	1 * 2	0 * 3	0 * 3	0 * 3	0 * 2	1 * 2	1 * 1	0 * 1	1 * 1	1 * 1	1 * 2

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

8139 450 Wy. & S. Ltd. 10—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-NINTH WEEK—September 26th to October 2nd, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	62	38	55·3	44·1	49·4	- 0·3	52	- 4	0	- 2	3	- 2	0·44	-0·82	22	+ 1	26	+ 2
Eastern																		
1. SCOTLAND, EAST	65	31	56·2	43·3	49·4	- 0·7	52	- 7	0	- 2	3	- 2	0·41	-0·26	12	- 12	14	-14
2. ENGLAND, N.E.	68	34	57·9	47·7	52·6	+ 0·3	74	+ 1	0	0	4	0	0·61	+0·21	13	- 15	15	-18
3. ENGLAND, EAST	68	41	59·3	48·3	53·6	0·0	81	- 1	0	- 1	5	+ 1	0·44	-0·09	12	- 19	14	-23
4. MIDLAND COUNTIES	70	40	58·8	48·1	53·2	+ 0·8	78	+ 3	0	- 1	5	+ 1	1·09	+0·55	10	- 17	13	-20
5. ENGLAND, S.E.	66	40	59·9	49·9	54·7	- 0·3	89	- 3	0	0	5	+ 1	1·21	+0·59	10	- 21	12	-26
Western																		
6. SCOTLAND, WEST	66	37	57·7	46·8	52·0	+ 0·5	70	+ 3	0	- 1	4	- 1	0·94	-0·20	6	- 19	7	-22
7. ENGLAND, N.W.	68	40	58·4	49·0	53·5	+ 0·6	81	+ 4	0	0	5	+ 1	1·45	+0·63	12	- 14	14	-17
8. ENGLAND, S.W.	69	40	60·7	50·1	55·2	+ 0·9	92	+ 6	0	0	5	+ 1	1·77	+0·88	15	- 14	18	-17
9. IRELAND, NORTH	66	40	58·9	49·7	54·1	+ 2·0	85	+ 14	0	0	5	0	1·25	+0·38	6	- 18	7	-22
10. IRELAND, SOUTH	72	41	62·4	49·9	55·9	+ 2·4	97	+ 17	0	0	6	+ 1	1·40	+0·69	14	- 15	16	-18
11. ENGLISH CHANNEL	69	45	62·9	53·3	57·9	+ 0·4	111	+ 3	0	0	4	- 1	0·77	0·00	16	- 20	19	-24

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 4 Weeks, September 5th to October 2nd, 1909.

0. SCOTLAND, NORTH	68	32	*	*	*	*	237	- 37	0	- 3	15	- 4	2·04	-2·18	118	+ 24	33	+ 7
Eastern																		
1. SCOTLAND, EAST	70	26	*	*	*	*	228	- 66	4	0	15	0	2·07	-0·10	95	- 16	27	- 4
2. ENGLAND, N.E.	70	33	*	*	*	*	301	- 45	0	0	16	+ 3	1·86	+0·05	83	- 42	24	-12
3. ENGLAND, EAST	74	36	*	*	*	*	358	- 34	0	- 1	17	+ 5	1·84	+0·02	101	- 39	29	-11
4. MIDLAND COUNTIES	71	33	*	*	*	*	320	- 40	0	- 2	18	+ 6	2·42	+0·53	78	- 45	22	-13
5. ENGLAND, S.E.	71	33	*	*	*	*	387	- 38	0	0	19	+ 7	3·22	+1·12	111	- 32	32	- 9
Western																		
6. SCOTLAND, WEST	70	31	*	*	*	*	286	- 32	0	- 1	12	- 3	2·20	-1·59	104	- 13	30	- 4
7. ENGLAND, N.W.	69	32	*	*	*	*	307	- 54	0	0	12	- 2	2·78	+0·03	108	- 12	31	- 3
8. ENGLAND, S.W.	72	30	*	*	*	*	359	- 36	0	0	14	0	2·82	-0·04	121	- 14	35	- 4
9. IRELAND, NORTH	68	30	*	*	*	*	311	- 24	0	0	15	- 2	2·59	-0·36	110	+ 4	31	+ 1
10. IRELAND, SOUTH	72	32	*	*	*	*	351	- 17	0	0	16	+ 1	2·05	-0·61	121	- 4	34	- 1
11. ENGLISH CHANNEL	74	45	*	*	*	*	465	- 11	0	0	15	0	1·78	-0·61	149	- 20	42	- 6

THE YEAR.—Aggregates, &c., for the Period of 39 Weeks, January 3rd to October 2nd, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1665	-163	535	- 25	179	0	27·60	-3·03	999	+ 21	27	+1
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	1823	-241	677	+ 53	152	+ 4	23·53	+1·79	1114	- 49	31	- 1
2. ENGLAND, N.E.	85	14	*	*	*	*	2224	- 72	580	+105	138	+ 5	19·86	+2·59	1198	- 61	33	- 2
3. ENGLAND, EAST	85	12	*	*	*	*	2455	-197	554	+ 32	140	+12	17·12	+0·39	1400	+ 33	39	+ 1
4. MIDLAND COUNTIES	86	8	*	*	*	*	2415	-181	642	+107	133	+ 6	19·42	+0·77	1247	+ 25	35	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	2568	-276	482	+101	132	+10	20·59	+2·38	1493	+107	42	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2067	-154	445	+ 19	146	- 9	31·20	-1·44	1231	+ 32	34	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2231	-197	466	+ 80	141	- 1	24·35	+0·39	1309	+ 93	36	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2471	-216	390	+ 89	138	- 1	23·16	-2·35	1453	+101	41	+ 3
9 IRELAND, NORTH	78	14	*	*	*	*	2228	- 94	315	- 30	170	+ 1	24·34	-2·47	1074	- 23	30	- 1
10. IRELAND, SOUTH	81	15	*	*	*	*	2594	- 60	265	+ 6	155	+ 5	23·08	-4·76	1246	+ 14	35	0
11. ENGLISH CHANNEL	84	25	*	*	*	*	3025	- 37	151	+ 42	126	-22	17·65	-3·42	1736	+ 90	49	+ 3

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℜ is supplied by the Royal Meteorological Society, and that for Stations marked 𝔖 is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts	Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. a, Islands.	p *Balta Sound* S	*56*	*28th*	*41*	*29, 30. 1st*	*52·4*	*43·7*	*47·8*	—	*41*	*0*	*5*	*0·72*	—	*14·8*	—	*18*	—	*Balta Sound.*
	a Sumburgh Head ..	55	2nd	38	1st, 2nd	52·4	41·9	46·9	- 2·1	35	0	4	0·18	- 0·65	22·7	- 0·8	27	- 1	Deerness.
	a Stornoway	58	2nd	40	29th	56·1	44·7	50·1	+ 0·5	57	0	2	0·44	- 0·68	26·1	+ 1·8	31	+ 2	Stornoway.
	a *Castlebay, Barra Isd.*	*57*	*26, 29, 2nd*	*47*	*1st*	*55·6*	*48·9*	*52·1*	+ *1·6*	*71*	*0*	*3*	*0·80*		*19·8*		*24*		*Castlebay.*
	a Wick	60	2nd	40	1st, 2nd	54·9	44·6	49·5	- 0·7	53	0	5	0·37	- 0·25	*	*	*	*	
b, Mainland.	p Strathpeffer.. ..	59	2nd	40	1st, 2nd	55·3	43·7	49·2	- 0·7	50	0	2	0·27	- 0·33	20·6	- 4·7	25	- 6	Strathpeffer.
	p Glencarron ..														*	*	*	*	
	p Fort Augustus	62	29th	39	29th	56·5	44·9	50·4	- 0·3	59	0	2	0·36	- 0·57	18·0	+ 0·2	22	0	Fort Augustus.
	p Fort William S	62	29th	38	29th	56·4	44·7	50·3	- 1·2	58	0	3	1·03	- 0·72	*	*	*	*	
1. SCOTLAND E.	p Gordon Castle S	63	2nd	34	1st	58·3	42·1	49·8	- 1·6	55	0	4	0·19	- 0·46	*25·1*	—	*30*	—	*Gordon Castle.*
	a Nairn	62	2nd	36	2nd	56·3	40·6	48·1	- 2·3	49	4	2	0·07	- 0·44	23·5	—	28	—	Nairn.
	a Aberdeen	63	2nd	43	1st	55·3	45·6	50·2	- 1·0	57	0	3	0·10	- 0·50	13·1	- 13·4	16	- 16	Aberdeen.
	a Balmoral .. S	65	1st, 2nd	36	1st	60·3	40·6	50·0	+ 2·4	62	4	2	0·04	- 0·66	8·9	—	11	—	Crathes S.
	p Crieff .. .. S	63	2nd	39	29th	55·0	44·0	49·2	- 2·3	50	0	5	0·65	- 0·13	3·1	—	4	—	Balruddery
	a Leith	65	2nd	42	30th, 1st	56·4	46·1	51·0	- 1·6	63	0	4	0·61	+ 0·20	11·2	- 10·7	14	- 13	Edinburgh.
	a West Linton.. S	61	2nd	31	30th	53·1	42·7	47·7	- 1·7	40	0	4	0·82	—	*7·1*	—	*9*	—	*West Linton.*
	p Marchmont .. S	60	2nd	41	30th	55·0	44·3	49·4	- 1·2	52	0	2	0·78	+ 0·12	10·9	- 13·9	13	- 17	Marchmont.
2. ENGLAND, N.E. a, North.	a Alnwick Castle ..	64	2nd	34	30th	56·2	43·5	49·6	- 1·5	53	0	3	0·71	+ 0·07	10·8	—	13	—	Cockle Park.
	a Shields	66	2nd	48	28, 30, 1 2	57·9	48·6	53·9	+ 0·8	77	0	4	0·52	+ 0·03	*7·9*	*- 12·8*	*10*	*- 15*	*Newcastle.*
	p Durham	63	2nd	46	1st	55·5	47·8	51·5	- 0·2	67	0	4	0·70	+ 0·18	10·3	- 14·9	12	- 18	Durham.
	p Rounton .. M	64	2nd	42	29th	56·2	46·6	51·2	- 0·1	64	0	6	0·78	+ 0·29	*	*	*	*	
	p Scarborough.. M	68	2nd	46	30th	60·1	49·3	54·4	+ 1·1	87	0	4	0·52	0·00	11·3	—	14	—	Scarborough.
	p York	66	2nd	43	30th	58·9	48·4	53·4	+ 0·5	80	0	3	0·67	+ 0·20	8·1	- 17·2	10	- 21	York.
b, South.	a Spurn Head	62	2nd	48	30th	58·3	50·3	54·1	- 0·3	85	0	3	0·33	- 0·06	*	*	*	*	
	a Lincoln	61	30th, 2nd	44	30th	58·3	47·8	52·8	- 0·4	76	0	5	0·61	+ 0·18	18·3	—	22	—	Skegness.
	a Fulbeck	67	2nd	43	27th	60·1	47·2	53·3	0·0	79	0	7	0·63	+ 0·17	16·0	—	19	—	Rauceby.
															20·0	—	*24*	—	*Lowestoft.*
	p Cromer	68	2nd	46	28th	58·5	48·6	53·3	- 0·7	79	0	5	0·29	—	10·1	—	12	—	Cromer.
	p Hillington .. M	66	2nd	44	30th	59·2	48·6	53·7	+ 0·1	82	0	5	0·34	- 0·26	11·5	- 17·7	14	- 21	Hillington.
a, North.	a Yarmouth	66	2nd	45	28th	59·3	48·4	53·6	- 0·9	81	0	2	0·32	- 0·20	19·6	—	24	—	Yarmouth.
	a Norwich														*	*	*	*	
3. ENGLAND, E.	p Geldeston	65	1st, 2nd	41	28th	60·1	46·0	52·7	- 1·3	75	0	5	0·41	- 0·12	8·3	- 24·7	10	- 30	Geldeston.
	p Cambridge	67	2nd	46	27th	60·3	48·6	54·2	+ 0·3	85	0	6	0·38	- 0·08	14·7	- 16·8	18	- 20	Cambridge.
	a *Felixstowe*	*53*	*1st*	*46*	*30th*	*60·0*	*49·3*	*54·4*	- *0·9*	*87*	*0*	*2*	*0·67*	—	*16·6*	—	*20*	—	*Felixstowe.*
b, South.	a Clacton-on-Sea ..	63	26th	46	30th	59·4	49·9	54·4	- 0·5	87	0	3	0·68	—	10·8	—	13	—	Clacton.
	a Rothamsted ..	63	1st, 2nd	42	27th	58·8	47·8	53·0	+ 0·2	77	0	6	0·56	+ 0·01	14·3	- 16·4	17	- 20	Rothamsted.
	a *Shoeburyness* ..	*67*	*2nd*	*46*	*28th, 30th*	*60·0*	*48·7*	*54·1*	- *1·9*	*85*	*0*	*5*	*0·58*	+ *0·13*	*8·6*	—	*10*	—	*Southend.*
	p Tottenham	64	1st, 2nd	44	27th	58·9	48·8	53·6	- 1·3	81	0	5	0·52	—	4·6	—	6	—	Tottenham.
4. MIDLAND COUNTIES. a, East.	a Harrogate	66	2nd	45	27th, 1st	55·8	47·3	51·4	- 0·2	66	0	5	0·64	+ 0·03	9·7	—	12	—	Harrogate.
	a Bawtry	70	2nd	44	30th	59·6	47·4	53·2	+ 0·4	78	0	6	0·50	+ 0·09	14·4	- 10·4	17	- 13	Worksop.
	p *Buxton* .. M	*63*	*2nd*	*44*	*2nd*	*55·3*	*46·0*	*50·4*	+ *0·7*	*59*	*0*	*4*	*0·80*	- *0·10*	*16·7*	—	*20*	—	*Buxton.*
	a Nottingham ..	65	2nd	46	27th	59·4	48·9	53·9	+ 0·8	83	0	6	0·59	+ 0·11	12·2	—	15	—	Nottingham.
	p Birmingham, Edgbas	66	1st	47	30th, 2nd	57·9	49·0	53·2	+ 0·4	78	0	6	1·34	+ 0·84	9·0	—	11	—	Birmingham.
	a Raunds .. M	67	2nd	40	27th	61·8	47·6	54·4	+ 1·3	87	0	5	0·71	—	*	*	*	*	
	a Oxford	65	1st	47	27th, 30th	58·7	49·0	53·6	- 0·2	81	0	6	0·89	+ 0·42	5·3	- 25·1	6	- 30	Oxford.
b, West.	a Cheadle .. M	61	2nd	45	30th	57·3	46·9	51·9	+ 0·3	69	0	4	1·07	+ 0·43	14·0	—	17	—	Sheffield.
	p Shrewsbury ..	66	2nd	44	30th, 2nd	58·5	47·7	52·8	- 1·0	76	0	5	1·19	—	*	*	*	*	
	a Hereford .. M	65	2nd	42	2nd	58·7	48·1	53·2	- 0·2	78	0	5	2·41	+ 1·93	*	*	*	*	
	a Cirencester	64	2nd	43	29th, 2nd	58·3	47·2	52·5	- 0·6	74	0	6	1·45	+ 0·87	4·3	- 24·8	5	- 30	Cirencester.
	a Bath	65	1st, 2nd	45	30th	60·6	50·1	55·1	+ 0·2	92	0	5	1·15	+ 0·57	14·2	—	17	—	Bath.
															18·3	—	*22*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	p Kew	66	1st	45	27th	59·1	48·9	53·8	- 0·5	83	0	5	0·95	+ 0·45	6·2	- 22·8	8	- 27	Kew.
	a Marlborough ..	64	2nd	44	30th	58·8	47·6	52·9	+ 0·9	76	0	6	1·74	+ 1·21	4·8	- 21·8	6	- 26	Marlborough.
	a Margate	66	2nd	50	28th, 2nd	60·4	52·1	56·1	+ 0·1	99	0	2	0·49	- 0·01	12·7	- 18·7	15	- 23	Margate.
	a Wisley, Surrey ..	65	1st	40	27th	59·4	47·4	53·1	- 1·5	78	0	6	0·97	—	7·3	—	9	—	Wisley.
	a Swarraton .. M														16·8	—	20	—	Worthing.
	a Tunbridge Wells M	65	2nd	42	28th	58·9	48·2	53·3	- 0·7	79	0	4	0·57	- 0·06	10·3	- 22·9	12	- 28	Tunbridge Wells.
	a Dungeness	63	2nd	47	27, 30, 2nd	60·1	50·0	54·8	- 1·4	90	0	6	1·30	+ 0·74	12·1	—	15	—	Littlestone.
	p Hastings	65	2nd	49	27th, 28th	60·7	51·8	56·0	- 0·1	98	0	4	0·88	+ 0·18	*9·2*	*- 25·9*	*11*	*- 31*	*Hastings.*
	p Southampton ..	65	1st	48	27th	60·9	50·9	55·7	0·0	96	0	4	2·38	+ 1·78	7·5	- 25·7	9	- 31	Southampton.
	a Ventnor	66	2nd	49	27th	61·1	52·2	56·4	- 1·0	101	0	4	1·63	+ 1·01	11·9	- 23·8	14	- 29	Ventnor.
															10·4	- 24·8	13	- 30	Eastbourne.
LONDON .. — ..	a *Westminster* ..	*63*	*1st*	*47*	*27th, 28th*	*58·6*	*50·6*	*54·4*	- *0·2*	*87*	*0*	*5*	*0·74*	+ *0·26*	*2·2*	*- 20·6*	*3*	*- 35*	*Westminster.*
	a *Greenwich*	*66*	*1st, 2nd*	*43*	*28th*	*60·4*	*48·4*	*54·1*	- *1·2*	*85*	*0*	*4*	*0·78*	+ *0·30*	*6·0*	*- 25·5*	*7*	*- 31*	*Greenwich.*
6. a, SCOTLAND. W. ..	p Laudale	61	29th	41	29th	57·8	46·9	52·1	+ 0·3	71	0	2	0·34	- 1·36	*	*	*	*	
	a Poltalloch .. S	62	29th, 1st	37	30th	57·9	45·9	51·6	- 0·2	67	0	4	0·78	- 0·36	*	*	*	*	
	p Glasgow	61	2nd	40	30th	54·7	46·6	50·5	- 0·8	60	0	4	0·64	- 0·13	4·5	- 16·4	5	- 20	Glasgow.
	p Rothesay .. S	63	2nd	40	30th	56·6	46·9	51·5	- 0·5	67	0	5	1·01	+ 0·01	*	*	*	*	
	a Kilmarnock ..	62	1st	39	30th	58·1	45·3	51·4	- 0·1	66	0	3	0·61	—	*14·0*	—	*17*	—	*Kilmarnock.*
	a Colmonell ..	64	29th	41	30th	59·9	46·2	52·7	+ 0·5	75	0	4	0·91	- 0·06	*	*	*	*	
	p Dumfries ..	66	26th	42	30th	59·0	47·3	52·9	+ 1·0	76	0	4	0·97	+ 0·23	*8·1*	—	*10*	—	*Dumfries.*
	p Cally, Gatehouse S	62	29th	44	30th	57·5	46·3	51·6	+ 0·5	67	0	4	0·97	+ 0·02	*	*	*	*	
b, ISLE OF MAN ..	p Douglas	62	2nd	44	30th	57·7	49·3	53·3	+ 1·0	79	0	4	2·24	+ 1·30	7·3	- 23·0	9	- 28	Douglas.
															12·5	—	15	—	Hoylake.
7. a, ENGLAND, N.W...	p Aspatria	60	29th	40	30th	57·2	46·9	51·8	+ 0·1	69	0	4	0·99	+ 0·10	10·0	—	12	—	Aspatria.
	p Newton Rigg ..	59	26th, 2nd	40	29th	55·5	45·6	50·3	+ 0·1	58	0	5	1·09	+ 0·36	6·7	- 18·9	8	- 23	Newton Rigg.
	p Stonyhurst	62	2nd	47	1st	56·4	49·1	52·6	+ 0·8	74	0	6	1·02	+ 0·03	8·6	- 18·1	10	- 22	Stonyhurst.
	p Blackpool .. M	63	2nd	46	26, 30, 1st	58·6	48·9	53·5	- 0·3	81	0	5	1·72	+ 0·96	6·7	- 20·3	8	- 24	Blackpool.
	p Manch'ster,Prestwich	65	2nd	48	26th, 30th	58·9	49·5	54·0	+ 1·7	84	0	5	0·92	+ 0·10	*6·4*	*- 16·5*	*8*	*- 20*	*Prestwich.*
	a Liverpool (Bidston)	65	2nd	48	30th, 1st	58·6	50·1	54·2	+ 0·7	85	0	5	1·26	+ 0·60	*14·5*	—	*18*	—	*Liverpool.*
	a Hawarden Bridge ..	68	2nd	48	1st	60·6	50·5	55·3	+ 1·0	93	0	4	1·12	+ 0·61	*10·6*	*- 16·7*	*13*	*- 20*	*Southport.*
															18·9	—	*23*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	65	2nd	46	30th	59·8	50·8	55·1	+ 0·3	92	0	5	2·10	+ 1·47	18·4	- 8·8	22	- 11	Llandudno.
	a Holyhead	61	26th	46	30th	59·0	50·0	54·3	- 0·1	86	0	6	2·54	+ 1·82	20·6	—	25	—	Aberdovey.
	p Bettws-y-Coed ..	61	26, 30, 1, 2	40	30th	59·3	48·4	53·6	- 0·2	81	0	5	1·72	—	9·2	—	11	—	Bettws-y-Coed.
															21·3	—	26	—	Aberystwyth.
a, SOUTH WALES ..	a Llangammarch Wells	63	1st	40	29th	59·1	45·3	51·9	+ 0·4	69	0	4	2·75	—	18·7	—	23	—	Llangammarch Wells.
	a Pembroke	63	29th	49	30th	60·0	52·4	56·0	+ 0·7	98	0	5	2·49	+ 1·75	17·6	- 13·4	21	- 16	Pembroke.
	a Cardiff	64	1st	47	30th	59·7	49·6	54·4	+ 0·8	87	0	6	2·90	+ 2·02	*17·9*	—	*22*	—	*Cardiff.*
8.															*18·2*	*- 13·8*	*22*	*- 17*	*Tenby.*
	a Clifton	65	2nd	49	30th, 2nd	60·4	51·1	55·5	+ 0·9	95	0	4	1·39	+ 0·72	*15·5*	—	*19*	—	*Clifton.*
	a Shaftesbury .. M	66	29th	48	27, 28, 30, 1	59·5	49·1	54·1	+ 0·3	85	0	4	1·60	+ 0·93	*	*	*	*	
	a Arlington	62	26th, 29th	44	30th	59·4	49·3	54·1	+ 1·1	85	0	6	2·91	+ 1·74	16·3	- 16·1	20	19	Newquay.
b, ENGLAND, S.W. ..	a Cullompton .. M	69	1st	41	26th, 30th	63·0	46·9	54·6	+ 0·6	88	0	6	1·04	+ 0·39	11·0	- 17·6	13	- 21	Cullompton.
	a Portland Bill ..	65	2nd	51	30th, 1st	61·7	53·6	57·5	+ 1·0	109	0	4	0·47	—	*16·5*	—	*20*	—	*Weymouth.*
	p Plymouth	65	1st	45	30th	62·6	49·8	55·9	+ 0·4	97	0	5	0·84	+ 0·15	9·2	- 22·9	11	- 28	Plymouth.
	p Falmouth	63	29th, 2nd	53	26th, 29th	61·7	54·0	57·7	+ 2·3	110	0	4	1·35	+ 0·49	12·5	- 20·2	15	- 24	Falmouth.
															17·2	*- 16·6*	*21*	*- 20*	*Torquay.*
9. IRELAND, N. a, West.	a Malin Head	61	2nd	49	26th	58·0	50·1	53·9	+ 1·3	83	0	3	0·66	- 0·04	*	*	*	*	
	a Blacksod Point ..	60	26, 1, 2nd	50	30th	58·4	52·9	55·5	+ 2·6	95	0	5	2·88	+ 1·85	*	*	*	*	
	p Markree Castle ..	66	2nd	42	30th	59·5	48·0	53·5	+ 2·2	81	0	5	1·51	+ 0·64	6·7	- 17·1	8	- 21	Markree Castle.
	a Birr Castle	65	2nd	43	30th	61·0	49·1	54·8	+ 2·8	90	0	4	1·16	+ 0·60	*6·9*	*- 20·7*	*8*	*- 25*	*Birr Castle.*
b, East.	p Armagh	65	2nd	40	30th	58·9	48·4	53·4	+ 1·8	80	0	6	0·63	+ 0·02	4·8	- 20·2	6	- 24	Armagh.
	a Donaghadee	64	2nd	43	30th	57·3	49·7	53·3	+ 0·5	79	0	5	0·66	+ 0·04	*	*	*	*	
10. IRELAND, S. a, East.	p Dublin, City.. ..	65	2nd	46	30th	60·3	50·7	55·3	+ 1·3	93	0	5	1·03	+ 0·52	7·0	- 23·6	8	- 29	Phœnix Park.
	a Kilkenny	66	1st, 2nd	42	30th	62·6	49·3	55·6	+ 3·3	95	0	5	1·92	+ 1·34	*	*	*	*	
	a Waterford	68	1st	45	30th	62·6	50·7	56·4	+ 3·0	101	0	6	2·55	+ 1·81	*	*	*	*	
b, West.	a Birr Castle	65	2nd	43	30th	61·0	49·1	54·8	+ 2·8	90	0	4	1·16	+ 0·60	6·9	- 20·7	8	- 25	Birr Castle.
	a Foynes	67	2nd	41	29th	62·0	48·9	55·1	+ 1·6	92	0	7	1·30	+ 0·57	*	*	*	*	
	a Cahir .. .. M	66	1st, 2nd	46	29th, 30th	62·3	50·2	56·0	+ 2·7	98	0	7	1·39	—	*	*	*	*	
	a Killarney	72	26th	43	26th	66·4	50·1	57·9	+ 4·4	111	0	6	1·52	+ 0·56	*	*	*	*	
	a Valencia	65	26, 1, 2nd	44	29th, 30th	63·7	49·3	56·2	+ 1·6	99	0	5	1·09	+ 0·05	24·7	- 3·6	30	- 4	Valencia.
	a Roche's Point ..	64	2nd	46	29th	61·1	50·9	55·8	+ 1·3	97	0	6	0·67	- 0·08	15·9	—	19	—	Ballinacurra.
11. ENGLISH CHANNEL..	a Scilly, St. Mary's ..	62	26th, 30th	55	27, 30, 2nd	60·6	55·9	58·1	+ 1·0	113	0	3	0·54	- 0·12	13·1	- 22·1	16	- 27	Scilly.
	a Jersey, St. Aubins ..	66	26th	45	30th	63·7	50·3	56·7	- 1·8	103	0	4	0·99	+ 0·25	18·0	- 20·0	22	- 24	St. Hellers.
	a Guernsey	69	27th	49	30th	64·3	53·7	58·8	+ 1·0	118	0	4	0·79	- 0·01	16·7	- 19·3	20	- 23	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 13·7 hrs.* (*- 20·9 hrs.*), *17 %* (*- 25 %*); *Bournemouth, 11·9 hrs., 14 %*; *Bognor, 17·6 hrs., 21 %*.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	49·3	—
	— —				
	— —				
1.	Aberdeen	—	—	—	51·5
	Crathes	0	32	53·1	53·0
	Balmoral	0	34	—	—
	West Linton	1	27	—	—
	Marchmont	0	34	51·1	—
2.	Cockle Park	0	38	51·1	51·7
	Durham	0	40	—	—
	York	—	—	54·9	55·0
	Hull	0	40	54·1	54·1
	Lincoln	—	—	54·8	54·8
	Rauceby	0	41	56·1	55·2
3.	Norwich				
	Yarmouth	—	—	57·0	57·4
	Lowestoft	0	42	56·7	57·2
	Cambridge	0	38	56·5	57·0
	Clacton-on-Sea	0	41	57·2	57·9
	Southend	0	46	58·0	—
	Tottenham	0	41	—	57·8
4.	Harrogate	0	40	52·4	52·6
	Huddersfield	0	40	53·2	53·1
	Buxton	0	39	53·1	52·7
	Sheffield	0	36	53·3	53·5
	Nottingham	0	42	54·5	55·6
	Birmingham	0	33	52·6	52·3
	Oxford	0	—	—	—
	Hereford	0	33	—	—
	Cirencester	0	37	—	—
5.	Margate	0	45	56·5	56·4
	Greenwich	0	35	—	—
	Westminster	0	43	—	—
	Kew	0	37	56·0	56·1
	Canterbury	0	40	55·8	56·9
	Tunbridge Wells	0	37	56·6	—
	Wisley	0	34	55·8	56·6
	Worthing	0	42	57·6	57·9
	Portsmouth	0	42	57·4	58·2
6.	Glasgow	0	33	—	—
	Rothesay	—	—	—	52·3
	Colmonell	0	38	—	—
	Dumfries	0	41	53·7	54·0
	Douglas	0	39	—	—
7.	Aspatria	0	31	—	—
	Newton Rigg	0	34	53·8	53·3
	Burnley	0	37	52·5	52·0
	Southport	0	35	55·3	56·0
	Manchester City	0	34	54·5	55·1
	Bettws-y-Coed	0	39	52·6	52·2
8.	Llangammarch Wells	0	34	53·8	53·7
	Cardiff	0	42	56·0	55·7
	Clifton	0	44	—	—
	Bath	—	—	57·8	58·1
	Plymouth	0	36	57·3	—
9.	Armagh	0	35	55·5	55·1
	Markree	0	36	56·2	55·9
10.	Dublin, Trin. Coll.	0	37	55·2	55·0
11.	Guernsey, Brooklyn	0	43	59·4	60·1

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	51	51	51·0
	Kirkwall	52	52	52·0
	Wick	52	52	52·0
SCOTLAND, E.	Cromarty	54	52	52·5
	Pennan Bay	53	51	52·5
	Aberdeen, Cove Bay	55	52	52·9
ENGLAND, N.E.	Burnmouth, Berwick	54	51	52·3
	Scarborough	54	50	53·0
ENGLAND, E.	Shipwash Lightship	60	58	59·0
	Margate‡	60	59	59·4
ENGLAND, S.E.	Eastbourne‡	60	58	58·9
SCOTLAND, W.	Lamlash	55	54	54·4
	Ballantrae	56	54	54·5
ENGLAND, N.W.	Port Erin	57	55	55·2
ENGLAND, S.W.	Newquay	59	59	59·0
	Plymouth‡	59	58	58·2
	Salcombe	60	58	58·8
IRELAND, N.W.	Sheephaven	56	54	55·0
	Teelin	58	55	56·9
IRELAND, S.W.	Cleggan	58	55	56·2
	Seafield	61	56	58·4
IRELAND, E.				

‡ Only one observation each day.

Additional Ascents from the Howard Estate Observatory, Glossop.

Date 1909.	Time.	Maximum height. Metres.	Apparatus used.
September 27th.	12.37 p.m. to 1.20 p.m.	1,300	Captive balloon.
" "	4.11 p.m. to 4.46 p.m.	600	" "
September 28th.	9.40 a.m. to 10.40 a.m.	1,230	Two kites on one wire.
" "	12.15 p.m. to 1.20 p.m.	1,000	One kite.
September 28th.	1.30 p.m. to 3.26 p.m.	1,100	Two kites on one wire.
" "	4.35 p.m. to 5.37 p.m.	900	One kite.
September 30th.	2. 0 p.m. to 2.15 p.m.	1,500	Pilot balloon.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; —→ = a fresh to strong breeze; —→ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

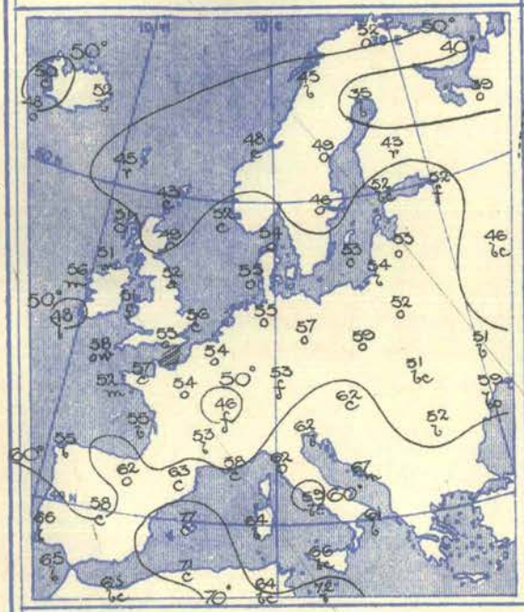
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

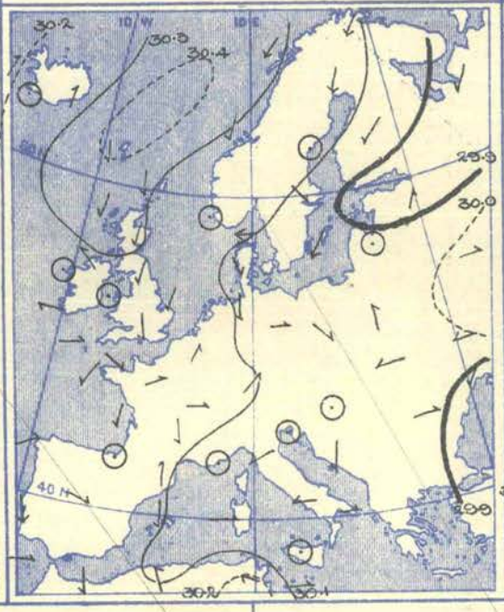
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 26th September, 1909.

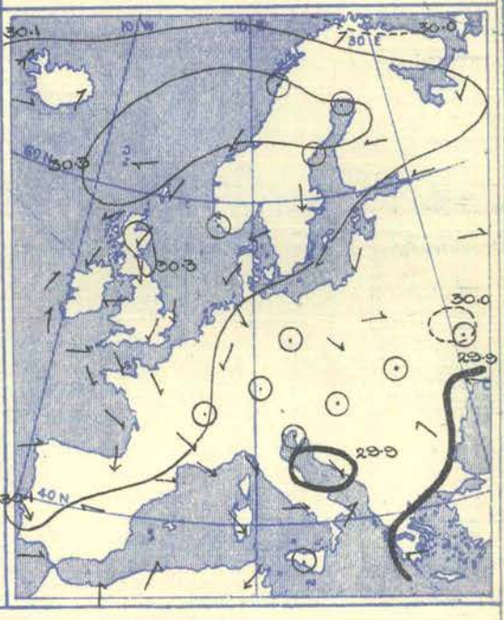
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over these Islands as a whole, with mist or fog in many places, and rain on our north-east coast as well as at Dungeness; very variable on the Continent generally, foggy in some central districts, and rainy at Kuopio and Cracow; fine over the Mediterranean region. Rain falling during day at most of our northern and eastern stations, and thunder heard at Castlebay. Rain in most parts of the Continent also, heaviest fall, 1 in. at Trieste.

Temperature fallen in most parts of our area. Morning readings below 40° in the north of Russia, below 50° in the north-east of Scotland, and locally at Valencia; about 55° over these Islands and the Continent generally, above 60° in the southern countries, and above 70° at some places on the shores of the Mediterranean. Maxima above 60° over the southern half of our Islands, above 70° in most southern countries, and as high as 86° at Cape Béarn, Madrid, and Tunis.

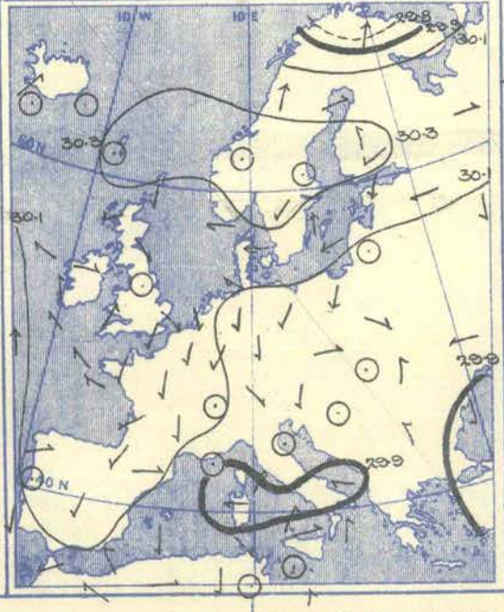
Wind in morning light or moderate from the Northward over Great Britain as a whole, light and variable in our western districts; light to fresh from North-East over the Scandinavian region, but very variable over the Continent generally. Little change occurring during day.

Barometer at 7.0 a.m. highest, 30·2 ins. to 30·4 ins., in an anticyclonic area stretching from central Spain to the Faröe region; relatively nigh, 30·0 ins. over eastern Russia. Lowest, 29·9 ins. and less, in a low pressure system lying over the Gulf of Finland, and also in a shallow depression over the Black Sea. Very little change taking place during day over western Europe, but depression over northern Russia disappearing from our area.

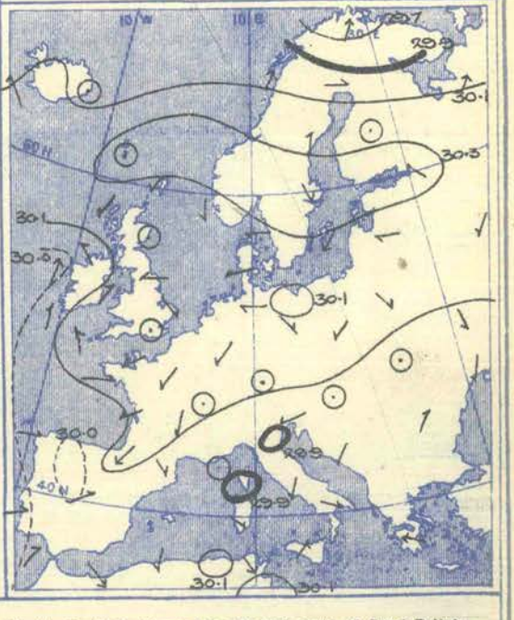
Monday, 27th September, 1909.

Temperature and Weather 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over southern and south-eastern Europe as a whole, but cloudy or dull over the Continent generally as well as over our Islands, with rain in our north-western districts as well as locally at Cassel. Rain falling during day in all parts of the British Islands, except the extreme south and south-east of England, and the Shetlands and Hebrides, measurements of 1 in. at Liverpool and Birr Castle, 1·5 in. at Blacksod Point, and 1·9 in. at Holyhead. Rain also falling in various Continental localities, over an inch at Lésina and Brindisi.

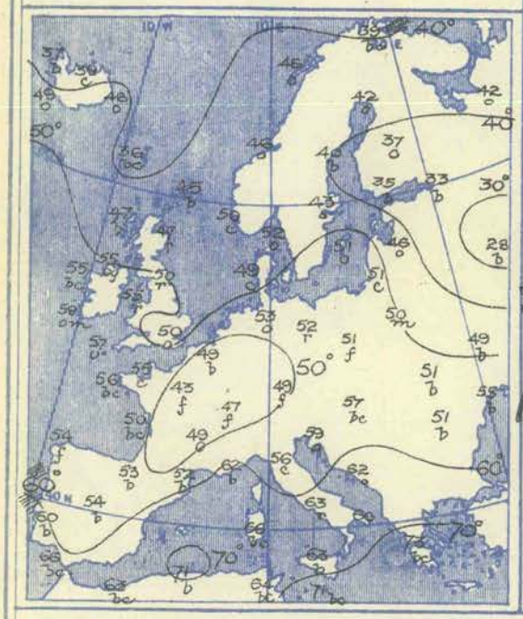
Temperature risen at some of our western stations, but fallen in nearly all parts of Great Britain and the Continent. Readings at 7.0 a.m. ranging from about 30° in Finland, below 45° over a large part of northern Europe, and below 50° over Scotland generally, to 60° and above over southern Europe, and to above 70° at some of the Mediterranean stations. Maxima below 60° in nearly all parts of our Islands during day, above 70° in the southern countries.

Wind chiefly Northerly (North-West to North-East) over the east and south of Great Britain, variable Southerly in the west, South-Westerly in the extreme northern parts of the Continent, North-Easterly over the Baltic and south of Scandinavia, variable over the Continent as a whole; light or moderate in force everywhere. Southerly current in the west becoming more decided during day; very little change elsewhere.

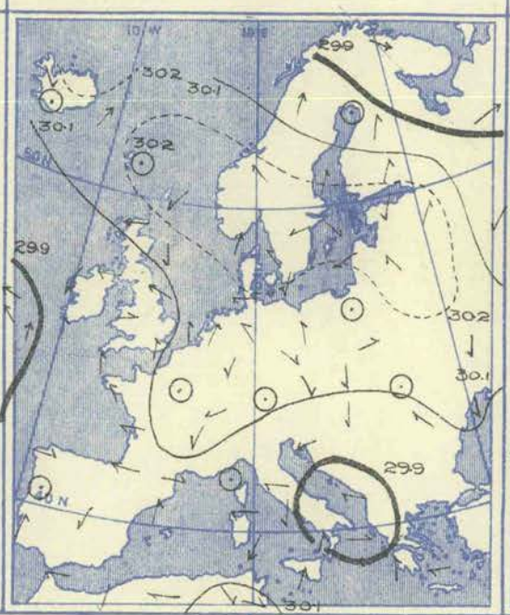
Barometer in morning highest, 30·3 ins. and upwards, in an anticyclone stretching from Faröe to Finland, and above 30·2 ins. over Great Britain and the north-west of France. Lowest, 29·8 ins. and less, in the extreme north of Sweden, and 29·9 ins. and less in two shallow depressions lying over south-eastern Europe. Low on the Atlantic also, 29·5 ins. and less to the northward of the Azores. Barometer falling during day on the Atlantic and our western coasts, reading at Ponta Delgada at 6.0 p.m., 29¼ ins.

Tuesday, 28th September, 1909.

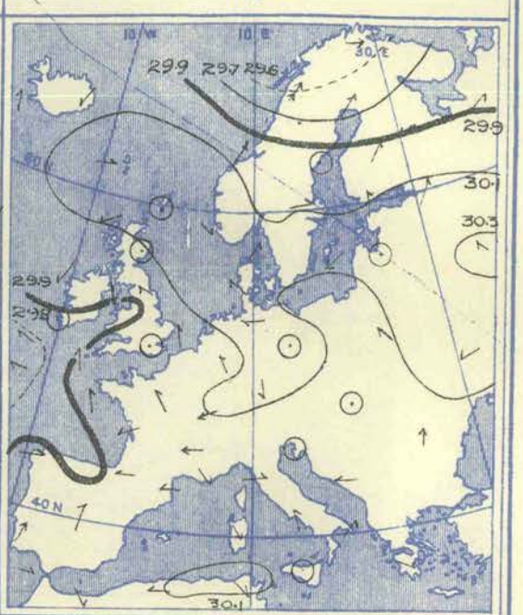
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over eastern, south-eastern, and some parts of southern Europe, and locally in the extreme north of Scotland; cloudy or dull over north-western Europe as a whole, with rain over a large part of our Islands as well as at several of the German and Italian stations. Rain falling during day in all parts of these Islands excepting one or two extreme western stations, and also in various parts of the Continent; fell very heavy in South Wales and south-west and south of England, 1·9 in. at Pembroke, 1 in. at Bath, and 0·9 in. at Dungeness.

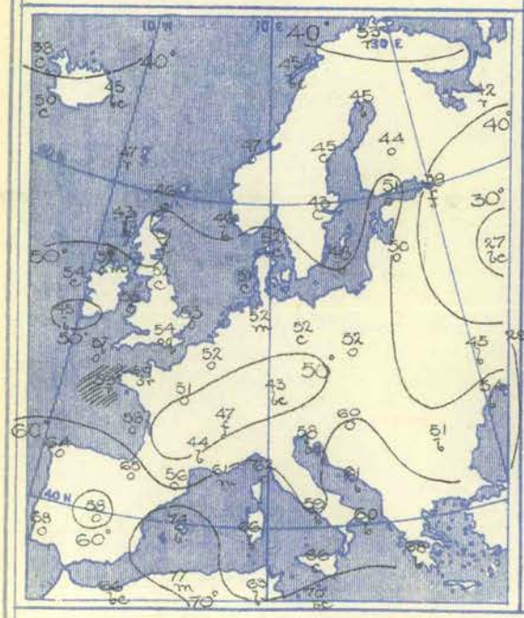
Temperature changed rather irregularly, but fallen slightly in most countries. Morning readings ranging from 28° at Moscow, below 40° around the Gulf of Finland, and below 50° over Scotland and central England and the western central parts of the Continent, to above 60° in the southern parts of our area, and to 75° in Greece. Maxima during day below 60° at all but our extreme southern stations, and below 55° in many places, but exceeding 70° in the south of France and the Mediterranean region generally, and reaching 86° at Madrid.

Wind in morning Easterly on our north-west coasts, and South-Easterly to Southerly in other parts of our Islands; South-Westerly to Westerly over northern Europe, but variable over the Continent generally; a cyclonic circulation shown over Italy and the Adriatic. A strong breeze at one or two stations in the far north, moderate or light elsewhere. Increasing to a gale at Bodö at 6.0 p.m., and to a fresh or strong wind at some of our own stations; no general change in direction.

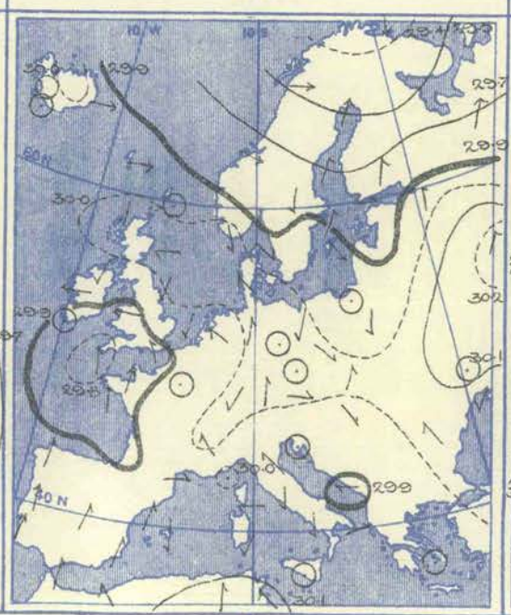
Barometer at 7.0 a.m. highest, 30·2 ins. and upwards, in an anticyclone stretching from Faröe to St. Petersburg; 30·1 ins. and upwards over Tunisia. Lowest, 29·4 ins. and less, on the Atlantic to the northward of the Azores, 29·2 ins. and less in a depression over the Kola Peninsula and the White Sea, and about the same value over Italy and the Adriatic. Pressure decreasing over our Islands and the Atlantic during day, in Lat. 49° N. Long. 28° W. the barometer reading 29·21 ins.

Wednesday, 29th September, 1909.

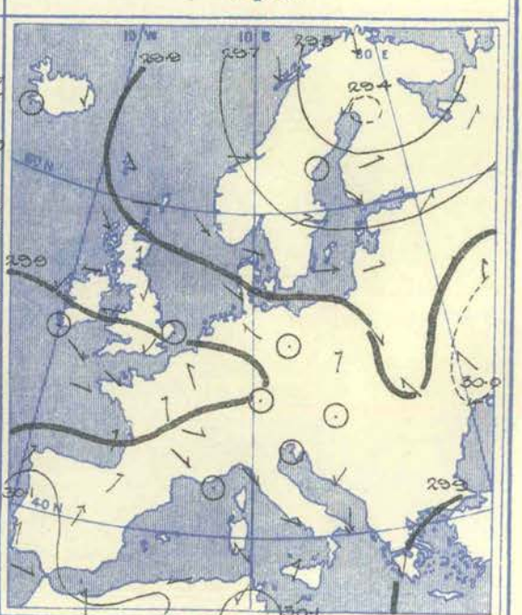
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair in the western parts of these Islands, cloudy or dull in the east and south of Great Britain, with rain at Nottingham and on our south-east coasts. Rain also falling in the Low Countries, the north of France, and the extreme north of our area, dull over the central countries, but fine and bright in the Mediterranean region. Remaining fair or fine during day at most of our western and northern stations, but rain falling over England and in most Continental countries except Sweden, Denmark, and over the Mediterranean.

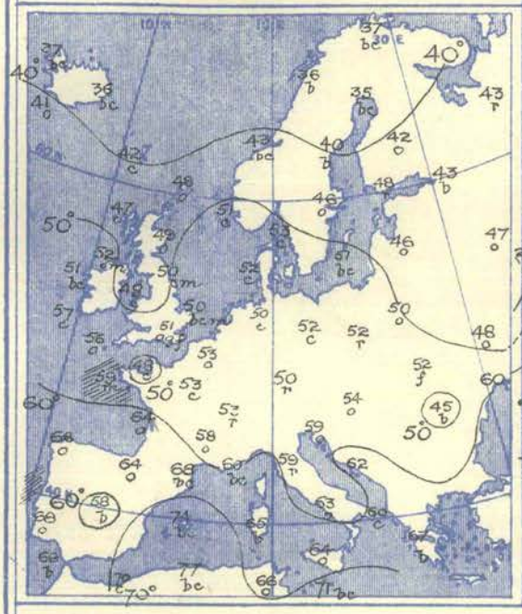
Temperature fallen at most of our western stations, risen slightly over England and more decidedly over the Peninsula and west and north of France; changed irregularly over the Continent generally, but risen briskly over the Baltic Provinces. Morning readings ranging from 27° at Moscow, and below 40° over central Russia generally, and below 50° over central Scotland and southern Ireland, to above 60° in the far south generally, and to above 70° in places. Maxima exceeding 60° in the southern parts of our Islands only, but reaching 70° to 80° in most southern countries.

Wind in morning cyclonic, South-Westerly to North-Westerly in northern Europe; chiefly Easterly to North-Easterly over the British Islands, but Southerly to South-Westerly from the mouth of the Channel across the Bay to the Spanish Peninsula. Very variable over the Continent as a whole; a high wind at Christiansund, but light or moderate breezes elsewhere. Decreasing to a light air at Christiansund during day, and veering to North-West over the western half of the Channel; little change elsewhere.

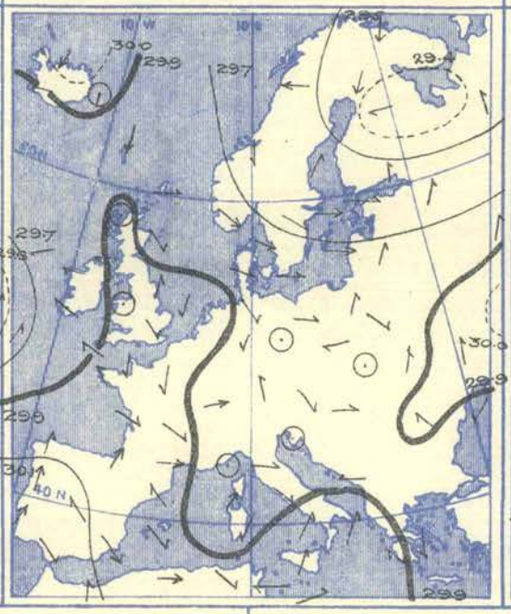
Barometer highest, 30·2 ins., over central Russia, and 30·1 ins. and upwards over Algeria; lowest, 29·4 ins. and less, over the north of Scandinavia; 29·3 ins. to 29·8 ins. between Long. 25° W. and the west of Ireland; shallow secondary centred near Scilly, barometer below 29·8 ins. Barometer rising slightly during day on our western coasts, Atlantic disturbance remaining almost stationary, northern depression moving south-eastwards over northern Russia.

Thursday, 30th September, 1909.

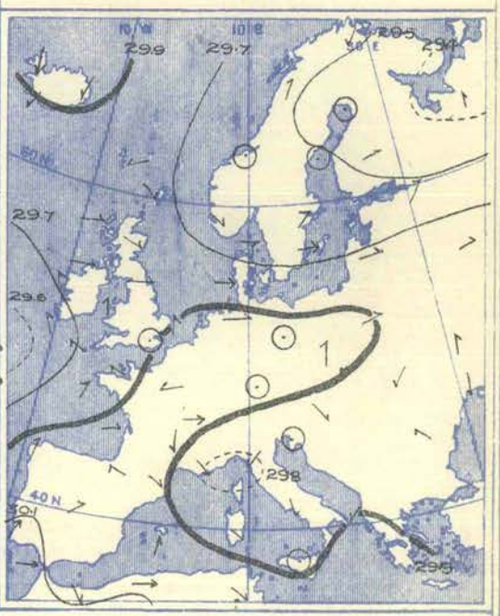
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over our area as a whole, but fair or fine in a few scattered localities; rain falling at many places in northern and central Europe and northern Italy, as well as in central Ireland, with mist at many of our stations. Rain very general during day over Ireland, England, France, Switzerland, and Italy, less prevalent in other countries. Largest amounts, 1·3 in. at Le Mans, 1·7 in. at Naples, and 2·4 ins. at Rome.

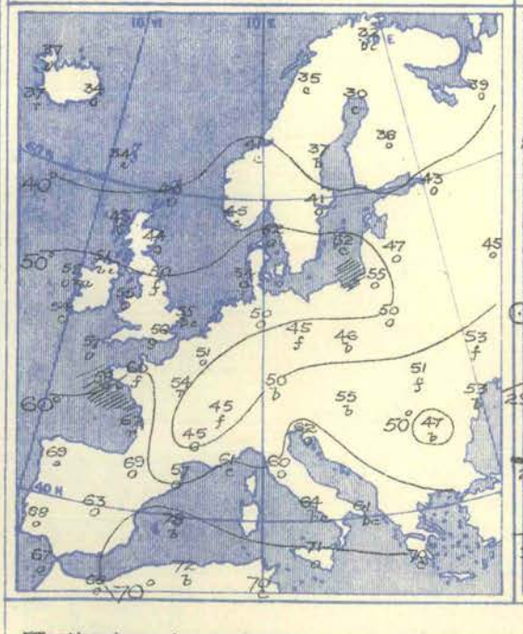
Temperature risen considerably in eastern Russia and also in southern Ireland, and to a less extent over the western half of the Continent, fallen at most of our own stations and over the northern and eastern half of Europe; 7.0 a.m. readings ranging from below 40° over northern Scandinavia, and below 50° over the northern half of Great Britain, to above 60° in most parts of the Mediterranean region, and to 77° at Algiers. Remaining below 60° except over our extreme southern districts during day, but between 70° and 80° in the south of France.

Wind in morning South-Easterly to South-Westerly over Ireland, the mouth of the Channel, and the Bay of Biscay, very variable over Great Britain and the Continent generally, but a cyclonic circulation shown over northern Europe. A strong breeze at Wisby, but light or moderate in force generally. Becoming more Southerly over England during day, and increasing to a strong breeze at Fanö.

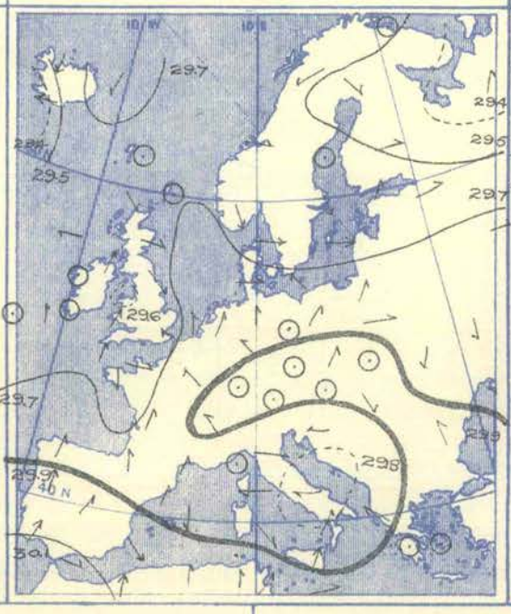
Barometer at 7.0 a.m. highest, 30·1 ins. and upwards, over Portugal and the west of Spain, and 30·0 ins. and upwards over south central Russia. Lowest, 29·4 ins. and less, in a depression over Lapland, below 29·8 ins. off the south-west of Ireland, and below 29·5 ins. to the northward of the Azores. Northern depression moving away eastwards during day, and pressure giving way in the west generally.

Friday, 1st October, 1909.

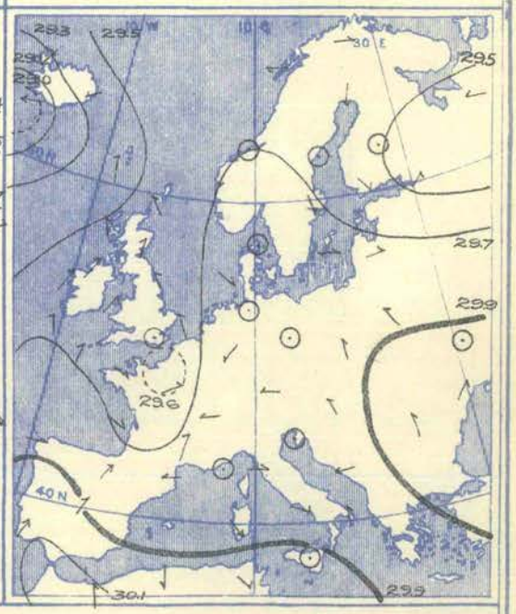
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy to dull, with rain in several places in France and England, and more or less cloud prevailing over our area generally. Some rain later in various parts of these Islands, and heavy falls in France and at Lésina; considerable quantities experienced in Switzerland and Italy.

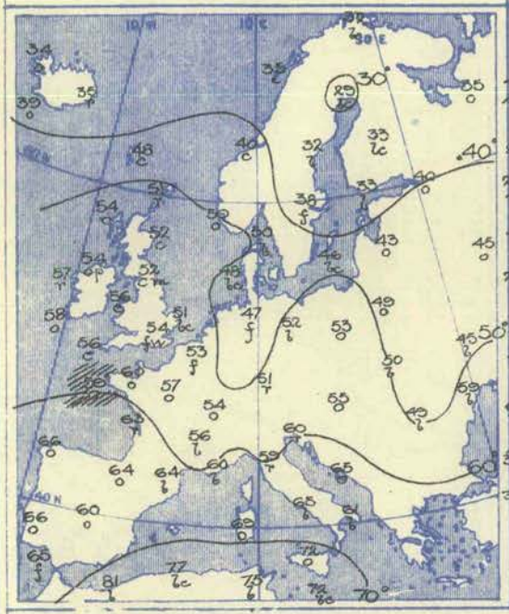
Temperature fallen in the west and north of these Islands and in Scandinavia. Morning readings below 50° over the north of this country and over the major portion of the Continent, above 55° in the south of England, and between 60° and 70° over the Mediterranean region. Thermometer below 32° in the north of Sweden. Maxima in these Islands a little above 60°, but below that value in some parts of Germany. Thermometer rising to above 75° at many stations in the south of our area, and to above 80° in places.

Wind in morning light and rather variable over a large part of our area, but light to strong from the Westward over the Baltic, and strong from between South and West over the Spanish Peninsula. Wind strong to high from various quarters in the west of Iceland. No general change occurring later, but a feeble cyclonic circulation setting in over the north-east of France, and a strong gale from North-East at Isafjord.

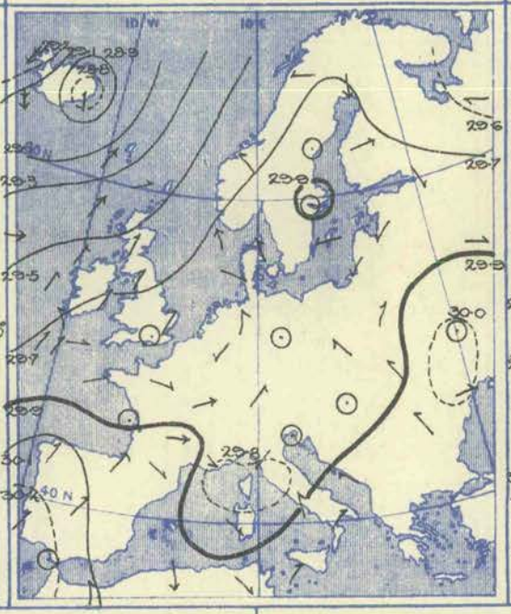
Barometer in morning below 29·4 ins. in a depression to the south-westward of Iceland, and relatively low over the Atlantic off the west of these Islands, and also in shallow depressions situated in various parts of our area. Above 30·1 ins. in the south-west of the Spanish Peninsula and over Morocco. Pressure decreasing quickly later over the Icelandic region, and briskly over the north of France.

Saturday, 2nd October, 1909.

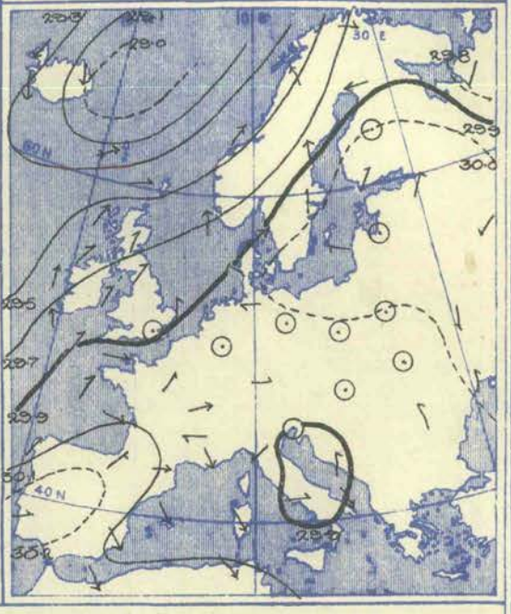
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine over a large part of the south of our area and in some localities elsewhere; cloudy to overcast over these Islands and a large portion of the Continent, with rain in a few places. More or less rain later at many places scattered over a wide area on the Continent, and also at most of our own stations; more than an inch at Berne, and 1·8 inch at Besançon.

Temperature risen quickly in Scotland, fallen somewhat in England. Readings in morning ranging from about 70° at some stations in the far south of our area to below 50° at nearly all places over the northern half of the Continent, and to 29° at Haparanda. Rising during day to 65° at many of our own stations, to above 70° over a large portion of France and southern Europe, and to above 80° in several places. Thermometer remaining below 60° at some stations in central Europe.

Wind in morning light to moderate from South and South-West over these Islands, light to strong from the Southward in Norway, and strong to a gale from the Northward in the west of Iceland. Light variable airs prevalent in Russia and central Europe, and a light to fresh cyclonic circulation over the south of our area. Increasing to a gale from the Westward by evening at Thorshavn, and backing somewhat and increasing in force on our extreme west coast.

Barometer in morning ranging from below 28·8 ins. in a depression centred over Iceland to above 30·2 ins. in the south-west of Spain. Relatively low in a shallow depression over central Europe and also in a depression over Corsica and its vicinity. Icelandic depression moving eastwards during day and pressure increasing briskly in its rear. A fresh fall of the barometer setting in on the west coast of Ireland. Not much change occurring in the general distribution.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second). *See* also p. 316.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Sept. 26th, 10.0 a.m. to 12.0 noon.	Brighton, 115 m.	Temperature Humidity .. Wind	288° 100% 20°, 7	287° 100% 20°, 9	285° 85% 25°, 10					284° 75% 30°, 10	750	Temp. at the ground rose 2·5° during ascent. Lowest clouds, 680 m.
2	Sept. 27th, 10.28 a.m. to 11.26 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 90% 170°, 0·4	283° 90% 168°, 0·5	281° 90% 167°, 0·4	280° 85% 161°, 0·4				278° 80% 154°, 0·4	1,440	Overcast and dull. Calm. Clouds, St.-Cu. 10, and mist.
3	Sept. 28th, 8.7 p.m to 9.40 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281° 100% 135°, 6	284·5° 100% 135°, 8	284° 100% 135°, 11	279° 97% 135°, 12	277° 99% 135°, 12			276° 100% 135°, 12	1,580	Dull and wet. Moderate breeze. Clouds, Ni. 10.
4	Sept. 29th, 8.38 a.m. to 10.56 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 97% 80°, 3·5	282° 97% 84°, 9	281° 97% 85°, 10	279° 98% 97°, 13	276° 98% 106°, 13			275° 99% 108°, 14	1,670	Dull and wet. Gentle breeze. Clouds, Ni. 10.
5	Sept. 30th, 11.0 a.m. to 11.20 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	285° 96% 253°, 0	—° —% 220°, —	—° —% 200°, 2	—° —% 173°, 5	—° —% 265°, 3			—° —% 280°, 2	1,660	Calm and misty. Clouds, Cu. and Ci. Pilot balloon.
6	Oct. 1st,	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	287° 96% Calm.	286° 95%	286° 95% 248°, 5	282° 96% 244°, 1				282° 96% 244°, 1	1,000	Fair at first, overcast later, with occasional showers. Calm. Clouds, Cu. and Cu.-Ni.
7	Oct. 2nd,	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	285° 94% 169°, —	285° 86% 220°, —	284° 85% 230°, 1					282° 76% 250°, 1	820	Fair to fine. Calm, with occasional light breeze. Clouds, Cu.

Owing to light winds no ascents were possible at Pyrton Hill.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7
No. of Kites or Balloons	3	1	2	2	1	1	1
Area of Surface (sq. metres) ..	12	—	15	15	—	—	—
Capacity of Balloon (cub. metres)	—	2·5	—	—	·13	2·5	2·5
Length of Wire (metres)	1,800	1,350	2,400	2,700	—	1,400	1,200

63, Victoria Street, London, S.W. *October 6th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 40. FORTIETH WEEK, SUNDAY, OCTOBER 3RD TO SATURDAY OCTOBER 9TH, 1909. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—General Remarks.

Weather was very variable, with frequent rain, interspersed, however, with fairly long intervals of bright sunshine. A thunderstorm occurred at Oxford on Sunday night, and at Llangammarch Wells on the early morning of Friday. Thunder alone was also observed at Yarmouth on Friday.

Temperature was above the average in all districts, the excess varying from 2°·1 in Scotland N. to 3°·8 in England E. and to 4°·2 in Ireland S. The highest of the maxima were generally recorded early in the week, and ranged from 70° in England N.E. to 61° in Scotland N. The lowest of the minima, which were mostly registered on the 6th or 9th, ranged from 30° in England S.W. and 33° in the Midland Counties and England S.E. to 41° in the English Channel. The lowest grass readings recorded were 25° at Cambridge, 26° at Hereford, Manchester, and Llangammarch Wells, 27° at Cirencester and 29° at Greenwich and Kew.

Mean Temperature of the Sea.—The water was colder than during the corresponding period of last year on almost all parts of the coast. The actual means for the week ranged from about 59° on the east coast of England and at Newquay to 55°·2 at Port Erin and to less than 51° at Kirkwall and Lerwick.

Rainfall was in excess of the average over the United Kingdom generally, but below it in Scotland E. and England N.E. and E. In the extreme south-east of England, the excess was rather large. As much as 1·03 inch fell at Prestwich on Sunday, 1·05 inch at Fort William on Wednesday, and 1·80 inch at Laudale on Thursday.

Bright Sunshine did not differ much from the average over the Kingdom generally, the values ranging from 39 per cent. of the possible duration in Ireland S., 37 per cent. in England E., and 36 per cent. in England S.E. to 21 per cent. in Scotland W. and Ireland N., and to 20 per cent. in Scotland N.

Barometer and Wind.—The general distribution of pressure was favourable for Southerly and South-Westerly winds, the cyclonic systems moving in a general northerly direction outside our western and north-western coasts. Some of these depressions were deep, and the wind at exposed spots in the west often increased to a fresh or strong breeze, while on Thursday high winds or gales from the Southward were experienced in all parts of the country. On Wednesday and also on Friday the wind veered temporarily to the Westward, and on the latter day it blew with gale force on the extreme north-western and northern coasts of these islands.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 324.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Very unusual	Unusual
	Rainfall ...	Heavy	Moderate	Light	Moderate	Moderate	Moderate	Heavy	Moderate	Moderate	Moderate	Heavy	Heavy
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Scanty	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 5 weeks from Sept. 5th, 1909.	Warmth ...	1 * 2	1 * 2	1 * 2	1 * 1	1 * 1	1 * 2	1 * 2	1 * 2	1 * 2	2 * 2	2 * 2	1 * 1
	Rainfall ...	1 * 3	2 * 1	0 * 1	1 * 0	1 * 0	2 * 0	1 * 1	1 * 1	1 * 1	1 * 2	2 * 3	2 * 1
	Sunshine ...	1 * 1	1 * 2	0 * 3	0 * 3	0 * 3	0 * 2	1 * 3	1 * 1	0 * 1	1 * 2	1 * 1	1 * 3

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

8148 450 Wy. & S. Ltd. 10—09.

TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTIETH WEEK—October 3rd to October 9th, 1909

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	61	37	56·2	44·6	50·2	+ 2·1	57	+ 10	0	− 3	6	+ 1	1·64	+0·27	16	− 3	20	− 4
Eastern																		
1. SCOTLAND, EAST	65	37	58·6	44·4	51·3	+ 2·8	65	+ 14	0	− 4	5	0	0·64	−0·12	24	+ 1	30	+ 2
2. ENGLAND, N.E.	70	38	61·0	46·9	53·7	+ 3·3	82	+ 21	0	− 2	5	+ 1	0·42	−0·11	22	− 3	28	− 4
3. ENGLAND, EAST	69	37	62·7	48·4	55·3	+ 3·8	93	+ 24	0	− 2	5	+ 1	0·55	−0·03	29	+ 2	37	+ 3
4. MIDLAND COUNTIES	68	33	61·7	46·6	53·9	+ 3·6	83	+ 21	0	− 3	6	+ 2	0·66	+0·04	24	0	30	0
5. ENGLAND, S.E.	67	33	61·9	49·8	55·7	+ 2·8	96	+ 18	0	− 1	5	+ 1	0·85	+0·15	29	+ 2	36	+ 2
Western																		
6. SCOTLAND, WEST	65	39	58·4	48·2	53·1	+ 3·2	78	+ 21	0	− 2	6	+ 1	1·53	+0·33	17	− 6	21	− 7
7. ENGLAND, N.W.	65	37	59·4	48·3	53·7	+ 2·6	82	+ 17	0	− 1	6	+ 2	1·19	+0·26	20	− 3	24	− 4
8. ENGLAND, S.W.	67	30	60·8	50·1	55·3	+ 2·9	93	+ 19	0	0	6	+ 1	1·11	+0·11	23	− 3	29	− 4
9. IRELAND, NORTH	66	40	59·3	48·2	53·6	+ 3·3	81	+ 22	0	− 1	6	+ 1	1·13	+0·21	17	− 5	21	− 6
10. IRELAND, SOUTH	68	38	61·5	50·4	55·8	+ 4·2	97	+ 29	0	− 1	7	+ 3	1·13	+0·35	31	+ 5	39	+ 6
11. ENGLISH CHANNEL	67	41	62·7	54·1	58·1	+ 2·4	113	+ 17	0	0	6	+ 2	1·31	+0·46	26	− 5	33	− 6

THE SEASON (Autumn).—Aggregates, &c., for the Period of 5 Weeks, September 5th to October 9th, 1909.

0. SCOTLAND, NORTH	68	32	*	*	*	*	294	− 27	0	− 6	21	− 3	3·68	−1·91	134	+ 21	31	+ 5
Eastern																		
1. SCOTLAND, EAST	70	26	*	*	*	*	293	− 52	4	− 4	20	0	2·71	−0·22	119	− 14	27	− 3
2. ENGLAND, N.E.	70	33	*	*	*	*	383	− 24	0	− 2	21	+ 4	2·28	−0·06	105	− 45	24	−11
3. ENGLAND, EAST	74	36	*	*	*	*	451	− 10	0	− 3	22	+ 6	2·39	−0·01	130	− 37	30	− 9
4. MIDLAND COUNTIES	71	33	*	*	*	*	403	− 19	0	− 5	24	+ 8	3·08	+0·57	102	− 45	24	−11
5. ENGLAND, S.E.	71	33	*	*	*	*	483	− 20	0	− 1	24	+ 8	4·12	+1·32	140	− 30	33	− 7
Western																		
6. SCOTLAND, WEST	70	31	*	*	*	*	364	− 11	0	− 3	18	− 2	3·84	−1·15	121	− 18	28	− 4
7. ENGLAND, N.W.	69	32	*	*	*	*	389	− 37	0	− 1	18	0	3·97	+0·29	128	− 14	30	− 3
8. ENGLAND, S.W.	72	30	*	*	*	*	452	− 17	0	0	20	+ 1	3·93	+0·07	144	− 17	34	− 4
9. IRELAND, NORTH	68	30	*	*	*	*	392	− 2	0	− 1	21	− 1	3·72	−0·15	127	0	29	0
10. IRELAND, SOUTH	72	32	*	*	*	*	448	+ 12	0	− 1	23	+ 4	3·18	−0·26	152	+ 1	35	+ 1
11. ENGLISH CHANNEL	74	41	*	*	*	*	578	+ 6	0	0	21	+ 2	3·09	−0·15	175	− 26	41	− 6

THE YEAR.—Aggregates, &c., for the Period of 40 Weeks, January 3rd to October 9th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1722	−153	535	− 28	185	+ 1	29·24	−7·76	1015	+ 18	27	+ 1
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	1888	−227	677	+ 49	157	+ 4	24·17	+1·67	1138	− 47	31	− 1
2. ENGLAND, N.E.	85	14	*	*	*	*	2306	− 51	580	+103	143	+ 6	20·28	+2·48	1220	− 65	33	− 2
3. ENGLAND, EAST	85	12	*	*	*	*	2548	−173	554	+ 30	145	+13	17·67	+0·36	1429	+ 35	39	+ 1
4. MIDLAND COUNTIES	86	8	*	*	*	*	2498	−160	642	+104	139	+ 8	20·08	+0·81	1271	+ 25	35	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	2664	−258	482	+100	137	+11	21·49	+2·58	1522	+108	42	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2145	−133	445	+ 17	152	− 8	32·84	−1·00	1248	+ 27	34	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2313	−180	466	+ 79	147	+ 1	25·54	+0·65	1329	+ 90	36	+ 2
8. ENGLAND, S.W.	89	7	*	*	*	*	2564	−197	390	+ 89	144	0	24·27	−2·24	1476	+ 97	40	+ 3
9. IRELAND, NORTH	78	14	*	*	*	*	2309	− 72	315	− 31	176	+ 2	25·47	−2·26	1091	− 27	30	− 1
10. IRELAND, SOUTH	81	15	*	*	*	*	2691	− 31	265	+ 5	162	+ 8	24·21	−4·41	1277	+ 18	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	3138	− 20	151	+ 42	132	−20	18·96	−2·96	1762	+ 85	48	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*56*	*9th*	*40*	*6th*	*53·6*	*44·1*	*48·7*	—	47	0	*4*	*0·67*	—	*19·7*	—	*25*	—	*Balta Sound.*
	a, Islands. *a* Sumburgh Head ..	55	8th, 9th	39	6th	53·3	44·9	49·0	+ 1·3	49	0	7	0·73	- 0·15	17·5	- 4·3	22	- 6	Deerness.
	a Stornoway	57	9th	39	6th	54·9	44·9	49·8	+ 1·5	55	0	7	1·61	+ 0·42	12·3	-10·1	16	-13	Stornoway.
	a Castlebay, Barra Isd.	*57*	*3rd*	*41*	*6th*	*55·4*	*48·0*	*51·6*	+ *2·0*	*67*	*0*	*6*	*1·01*	—	*19·6*	—	*25*	—	*Castlebay.*
	a Wick	59	9th	37	6th	55·9	44·4	50·0	+ 1·1	56	0	5	0·76	+ 0·11	*	*	*	*	*
	b, Main- *p* Strathpeffer ..	60	3rd	39	6th	57·2	43·3	50·0	+ 1·4	56	0	5	0·95	+ 0·34	19·1	- 4·2	24	- 5	Strathpeffer.
	land. *p* Glencarron	60	9th	38	5th, 6th	56·6	43·5	49·9	+ 2·6	55	0	6	2·69	+ 0·62	*	*	*	*	*
	p Fort Augustus S	60	7th	39	5th, 6th	57·6	44·7	51·0	+ 1·7	63	0	6	1·58	+ 0·64	13·8	- 2·7	18	- 3	Fort Augustus.
	p Fort William S	61	4th	40	6th	57·6	46·5	51·9	+ 1·6	69	0	7	3·18	+ 1·41	*	*	*	*	*
1. SCOTLAND E.	*p* Gordon Castle S	63	9th	37	6th	59·3	43·3	51·1	+ 1·2	64	0	3	0·44	- 0·26	*29·0*	—	*37*	—	*Gordon Castle.*
	a Nairn	63	5th	37	6th	58·1	43·3	50·5	+ 1·6	60	0	5	0·94	+ 0·42	26·4	—	33	—	Nairn.
	a Aberdeen	63	3rd	39	6th	58·4	46·0	52·0	+ 2·1	70	0	4	0·31	- 0·31	27·2	+ 2·3	34	+ 3	Aberdeen.
	a Balmoral	62	4th	34	7th, 9th	59·3	37·6	48·1	+ 1·9	61	12	3	1·01	+ 0·26	18·8	—	24	—	Crathes S.
	a Crieff .. .. S	64	4th	38	6th	57·6	44·7	51·0	+ 1·1	63	0	6	0·89	+ 0·08	22·9	—	29	—	Balruddery
	a Leith	64	3rd	42	6th	60·9	49·7	55·1	+ 4·1	92	0	6	0·37	- 0·08	24·5	+ 3·5	31	+ 4	Edinburgh.
	a West Linton.. S	60	4th	37	6th	56·0	46·0	50·9	+ 2·8	62	0	6	0·72	—	*17·1*	—	*22*	—	*West Linton.*
	p Marchmont .. S	65	3rd	37	6th	58·9	44·4	51·4	+ 1·9	66	0	5	0·44	- 0·29	21·2	- 2·0	27	- 3	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	66	4th	40	9th	61·4	46·3	53·6	+ 3·8	81	0	5	0·19	- 0·52	24·2	—	31	—	Cockle Park.
	a Shields	64	4th	40	6th	60·6	46·1	53·1	+ 2·4	78	0	6	0·40	- 0·20	*16·6*	- *2·6*	*21*	- *3*	*Newcastle.*
	p Durham	64	4th	39	6th	58·4	45·1	51·6	+ 1·6	67	0	5	0·21	- 0·39	21·3	- 2·2	27	- 3	Durham.
	a, North. *p* Rounton .. M	66	4th	38	6th	59·9	44·4	51·9	+ 2·1	69	0	6	0·42	- 0·13	*	*	*	*	*
	p Scarborough.. M	70	4th	42	6th	62·3	48·9	55·4	+ 3·5	94	0	5	0·17	- 0·43	20·4	—	26	—	Scarborough.
	p York	67	4th	40	9th	61·0	46·1	53·3	+ 1·9	79	0	4	0·65	+ 0·13	14·7	- 8·6	18	-11	York.
	a Spurn Head ..	65	4th	43	6th	61·0	49·6	55·1	+ 2·4	92	0	2	0·82	+ 0·38	*	*	*	*	*
	b, South. *a* Lincoln	67	4th	39	6th	62·5	47·4	54·7	+ 3·2	89	0	6	0·43	- 0·07	27·9	—	35	—	Skegness.
	a Fulbeck	66	4th	41	6th	61·8	48·2	54·8	+ 3·1	90	0	4	0·47	- 0·02	25·4	—	32	—	Rauceby.
															30·4	—	*38*	—	*Lowestoft.*
	p Cromer	65	4th	41	6th	62·1	48·0	54·8	+ 2·3	90	0	5	0·76	—	26·0	—	33	—	Cromer.
	p Hillington .. M	66	5th	37	9th	62·3	46·0	53·9	+ 1·8	83	0	5	0·63	- 0·01	24·8	- 2·1	31	- 3	Hillington.
	a, North. *a* Yarmouth	65	4th, 5th	41	7th	62·4	48·0	55·0	+ 2·3	91	0	4	0·31	- 0·28	31·6	—	40	—	Yarmouth.
	a Norwich	64	4th, 5th	39	9th	62·2	48·8	55·3	+ 2·0	93	0	4	0·55	—	*	*	*	*	*
3. ENGLAND, E.	*p* Gelderston	65	4th	39	9th	63·3	48·2	55·5	+ 3·2	95	0	5	0·32	- 0·27	28·7	- 1·6	36	- 2	Gelderston.
	p Cambridge	69	4th	37	6th, 9th	64·6	47·2	55·6	+ 3·5	95	0	4	0·76	+ 0·27	32·5	+ 3·5	41	+ 4	Cambridge.
	a, South. *a Felixstowe*	*57*	*4th*	*41*	*9th*	*62·6*	*51·7*	*57·0*	+ *3·5*	*105*	*0*	*3*	*0·38*	—	*32·3*	—	*40*	—	*Felixstowe.*
	a Clacton-on-Sea ..	66	4th	41	9th	62·0	50·6	56·1	+ 2·7	99	0	5	0·46	—	32·6	—	41	—	Clacton.
	a Rothamsted ..	65	4th	39	9th	61·8	48·7	55·1	+ 4·1	92	0	6	0·91	+ 0·31	29·2	+ 0·7	37	+ 1	Rothamsted.
	a Shoeburyness ..	*66*	*4th*	*41*	*6th*	*63·0*	*51·4*	*57·0*	+ *2·8*	*105*	*0*	*5*	*0·38*	- *0·08*	*32·4*	—	*41*	—	*Southend.*
	p Tottenham	66	4th, 5th	42	9th	63·4	50·3	56·7	+ 3·3	103	0	4	0·36	—	29·6	—	37	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	62	4th, 5th	37	6th	58·3	45·8	51·9	+ 1·6	69	0	7	0·73	+ 0·07	18·2	—	23	—	Harrogate.
	a Bawtry	63	3rd	38	9th	63·0	47·9	55·2	+ 4·0	92	0	6	0·39	- 0·09	20·7	- 2·0	26	- 3	Worksop.
	p Buxton .. M	*59*	*3rd, 4th*	*39*	*6th*	*57·4*	*45·3*	*51·2*	+ *2·9*	*64*	*0*	*6*	*1·39*	+ *0·42*	*24·9*	—	*31*	—	*Buxton.*
	a, East. *a* Nottingham ..	66	3rd	37	9th	62·6	45·4	53·8	+ 2·0	83	0	5	0·64	+ 0·12	23·9	—	30	—	Nottingham.
	p Birmingham, Edgbsn	66	4th	40	6th, 9th	61·2	47·2	54·0	+ 3·0	84	0	5	0·53	- 0·02	24·6	—	31	—	Birmingham.
	a Raunds .. .. M	68	4th	37	9th	64·4	46·9	55·4	+ 3·6	94	0	5	0·58	—	*	*	*	*	*
	a Oxford	67	3rd	41	9th	62·6	48·9	55·6	+ 3·5	95	0	5	0·47	- 0·07	28·8	+ 0·9	36	+ 1	Oxford.
	a Cheadle .. .. M	62	5th	37	6th	59·0	45·6	52·1	+ 2·1	71	0	7	1·29	+ 0·62	24·5	—	31	—	Sheffield.
	p Shrewsbury	67	4th	35	9th	62·4	44·9	53·4	+ 1·2	80	0	6	0·59	—	*	*	*	*	*
	b, West. *a* Hereford .. M	64	3, 4, 5, 8th	35	9th	61·9	47·6	54·5	+ 2·5	88	0	5	0·63	+ 0·10	*	*	*	*	*
	a Cirencester	65	3rd	33	9th	60·4	44·9	52·4	+ 0·8	73	0	6	0·55	- 0·09	22·8	- 4·2	29	- 5	Cirencester.
	a Bath	68	3rd	36	9th	63·3	47·4	55·1	+ 1·6	92	0	6	0·82	+ 0·21	27·8	—	35	—	Bath.
															32·0	—	*40*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	*p* Kew	65	3, 4, 5th	40	9th	62·4	49·2	55·6	+ 2·8	95	0	5	0·42	- 0·12	30·9	+ 4·5	39	+ 6	Kew.
	a Marlborough ..	64	3, 5, 8th	33	9th	61·6	46·9	54·0	+ 3·4	84	0	7	0·93	+ 0·35	25·2	+ 0·5	32	+ 1	Marlborough.
	a Margate	67	4th	44	6th	62·8	51·9	57·2	+ 2·7	106	0	5	0·54	0·00	30·1	+ 1·1	38	+ 1	Margate.
	a Wisley, Surrey ..	65	5th	40	9th	62·5	50·1	56·1	+ 2·9	99	0	5	0·64	—	30·7	—	38	—	Wisley.
	a Swarraton .. M	63	4th, 5th	33	9th	61·2	46·8	53·8	+ 2·4	83	0	6	1·31	+ 0·62	29·6	—	37	—	Worthing.
	a Tunbridge Wells M	62	3, 4, 8th	38	9th	60·7	49·2	54·8	+ 2·5	90	0	4	1·10	+ 0·40	31·1	+ 0·7	39	+ 1	Tunbridge Wells.
	a Dungeness	63	3, 4, 8th	39	9th	61·6	50·1	55·7	+ 0·8	96	0	4	0·89	+ 0·29	29·6	—	37	—	Littlestone.
	p Hastings	64	8th	41	9th	61·7	50·5	55·9	+ 1·4	97	0	5	0·61	- 0·15	*28·6*	- *3·8*	*36*	- *5*	*Hastings.*
	p Southampton ..	65	5th	40	9th	62·7	49·9	56·1	+ 1·9	99	0	6	1·19	+ 0·51	26·3	- 4·2	33	- 5	Southampton.
	a Ventnor	63	3, 4, 5, 8th	47	6th, 9th	62·1	53·6	57·7	+ 1·6	110	0	6	0·83	+ 0·23	26·9	- 6·1	34	- 8	Ventnor.
															30·0	- 2·2	38	- 3	Eastbourne.
LONDON	*a Westminster* ..	*65*	*3, 4, 5th*	*41*	*9th*	*63·0*	*50·1*	*56·4*	+ *3·8*	*101*	*0*	*6*	*0·60*	+ *0·07*	*28·8*	+ *8·6*	*36*	+*11*	*Westminster.*
	a Greenwich	*68*	*4th*	*39*	*9th*	*64·6*	*49·6*	*56·9*	+ *3·1*	*104*	*0*	*4*	*0·96*	+ *0·46*	*33·7*	+ *5·6*	*42*	+ *7*	*Greenwich.*
6.	*p* Laudale	60	3rd, 7th	42	6th	58·1	48·2	53·9	+ 2·7	77	0	6	3·47	+ 1·77	*	*	*	*	*
	a Poltalloch .. S	59	5th	41	6th	57·4	46·6	51·8	+ 1·5	69	0	6	1·93	+ 0·79	*	*	*	*	*
	p Glasgow	62	3rd	42	6th	58·3	48·4	53·2	+ 3·4	78	0	6	0·76	- 0·01	11·8	- 7·3	15	- 9	Glasgow.
	a, SCOTLAND. W. .. *p* Rothesay .. S	62	3rd	43	5th, 9th	59·0	46·3	52·5	+ 1·8	74	0	6	1·72	+ 0·72	*	*	*	*	*
	a Kilmarnock	65	3rd	45	9th	58·7	50·6	54·5	+ 4·3	88	0	4	1·40	—	*11·3*	—	*14*	—	*Kilmarnock.*
	a Colmonell	65	3rd	45	6th	59·1	50·0	54·4	+ 3·5	87	0	5	1·09	+ 0·11	*	*	*	*	*
	p Dumfries	61	3, 4, 5th	42	9th	59·0	50·1	54·4	+ 3·8	87	0	6	1·22	+ 0·44	*15·3*	—	*19*	—	*Dumfries.*
	p Cally, Gatehouse	58	3, 4, 5, 7, 9	39	9th	57·6	44·5	50·9	+ 1·0	62	0	7	1·24	+ 0·24	*	*	*	*	*
	b, ISLE OF MAN .. *p* Douglas	60	3rd	43	5th, 6th	57·9	49·1	53·4	+ 2·3	80	0	5	0·91	- 0·07	21·3	- 6·3	27	- 8	Douglas.
															22·4	—	28	—	Hoylake.
7.	*p* Aspatria	60	3rd	43	6th	58·4	48·4	53·3	+ 2·9	79	0	7	1·03	+ 0·13	13·1	—	17	—	Aspatria.
	p Newton Rigg ..	61	4th	38	9th	56·7	44·8	50·6	+ 1·6	60	0	6	1·27	+ 0·47	15·9	- 7·4	20	- 9	Newton Rigg.
	p Stonyhurst	60	3rd, 4th	41	6th	57·7	48·1	52·8	+ 2·6	76	0	5	1·21	+ 0·18	16·6	- 7·7	21	-10	Stonyhurst.
	a, ENGLAND, N.W... *p* Blackpool .. M	62	4th	41	6th	59·6	48·0	53·6	+ 1·5	81	0	5	0·49	- 0·33	21·7	- 3·0	27	- 4	Blackpool.
	p M nch'ster, Prestwich	63	5th	37	9th	60·0	46·3	53·0	+ 2·0	77	0	6	1·78	+ 0·93	*15·8*	- *3·8*	*20*	- *5*	*Prestwich.*
	a Liverpool (Bidston)	64	4th	44	6th	60·1	49·1	54·4	+ 2·2	87	0	6	1·04	+ 0·32	*19·4*	—	*24*	—	*Liverpool.*
	a Hawarden Bridge ..	65	4th	42	9th	62·0	49·5	55·6	+ 2·7	95	0	6	0·53	- 0·05	*20·5*	- *3·9*	*26*	- *5*	*Southport.*
															25·5	—	*32*	—	*Rhyl.*
	p Llandudno .. M	63	4th	43	9th	59·5	49·2	54·7	+ 1·4	89	0	5	1·55	+ 0·84	25·6	+ 1·1	32	+ 1	Llandudno.
	b, NORTH WALES .. *a* Holyhead	62	4th	46	6th, 7th	59·1	51·6	55·2	+ 2·2	92	0	6	1·41	+ 0·63	23·4	—	29	—	Aberdovey.
	p Bettws-y-Coed ..	62	3rd	40	6th, 9th	59·9	48·3	53·9	+ 1·3	83	0	6	1·57	—	16·9	—	21	—	Bettws-y-Coed.
															18·9	—	24	—	Aberystwyth.
	a Llangammarch Wells	63	4th	30	9th	59·8	45·5	52·4	+ 2·2	73	0	7	1·77	—	23·3	—	29	—	Llangammarch Wells.
	a, SOUTH WALES .. *a* Pembroke	63	6th	50	6th	60·3	53·7	56·9	+ 3·0	104	0	5	0·96	+ 0·18	28·4	+ 0·1	36	0	Pembroke.
	a Cardiff	64	3rd	40	9th	61·1	47·5	54·1	+ 2·1	85	0	7	0·77	- 0·18	*25·9*	—	*32*	—	*Cardiff.*
8.															*30·0*	+ *0·7*	*38*	+ *1*	*Tenby.*
	a Clifton	67	3rd	42	6th, 9th	62·0	49·8	55·7	+ 2·9	96	0	6	0·99	+ 0·26	*23·6*	—	*30*	—	*Clifton.*
	a Shaftesbury .. M	62	5th	41	6th	59·5	49·2	54·2	+ 2·2	85	0	5	0·76	+ 0·05	*	*	*	*	*
	a Arlington	61	3rd, 6th	40	9th	59·4	48·7	53·9	+ 2·2	83	0	7	1·65	+ 0·36	22·6	- 7·2	28	- 9	Newquay.
	b, ENGLAND, S.W. .. *a* Cullompton .. M	65	3rd, 5th	33	9th	62·8	48·0	55·2	+ 2·9	92	0	7	1·11	+ 0·39	18·4	- 7·6	23	-10	Cullompton.
	a Portland Bill ..	62	3rd	52	9th	60·9	55·3	58·0	+ 3·1	112	0	6	0·71	—	*26·7*	—	*38*	—	*Weymouth.*
	p Plymouth	65	5th	41	6th	62·0	51·5	56·6	+ 2·5	102	0	4	1·24	+ 0·51	24·9	- 4·1	31	- 5	Plymouth.
	p Falmouth	64	3rd	47	6th, 9th	60·8	51·5	56·8	+ 1·6	97	0	7	1·10	+ 0·15	25·1	- 4·6	31	- 6	Falmouth.
															24·5	- *6·2*	*31*	- 8	*Torquay.*
9. IRELAND, N.	*a* Malin Head	61	3rd	45	6th	57·1	49·0	52·9	+ 1·4	76	0	5	0·78	+ 0·07	*	*	*	*	*
	a, West. *a* Blacksod Point ..	61	3, 6, 7, 9th	47	6th	59·3	50·1	54·6	+ 2·3	88	0	6	2·05	+ 0·97	*	*	*	*	*
	p Markree Castle ..	65	4th	40	5th	60·5	46·0	53·0	+ 3·2	77	0	6	1·32	+ 0·42	16·0	- 6·4	20	- 8	Markree Castle.
	a Birr Castle	66	3rd	40	6th	60·9	48·1	54·3	+ 3·8	86	0	7	0·88	+ 0·27	*24·8*	- *0·9*	*31*	- *1*	*Birr Castle.*
	b, East. *p* Armagh	65	3rd	40	5th	60·3	47·0	53·5	+ 3·0	81	0	5	0·90	+ 0·30	17·0	- 6·4	21	- 8	Armagh.
	a Donaghadee	60	3rd	42	6th	57·7	48·9	53·2	+ 1·3	78	0	6	0·87	+ 0·25	*	*	*	*	*
10. IRELAND, S.	*p* Dublin, City.. ..	67	3rd	44	5th, 6th	62·1	49·4	55·6	+ 3·2	95	0	6	0·26	- 0·29	37·3	+ 9·0	47	+11	Phœnix Park.
	a, East. *a* Kilkenny	67	3rd	38	6th, 9th	60·9	48·4	54·5	+ 3·2	88	0	7	0·91	+ 0·30	*	*	*	*	*
	a Waterford	68	6th	40	6th	61·9	50·4	56·0	+ 4·1	98	0	6	0·99	+ 0·19	*	*	*	*	*
	a Birr Castle	66	3rd	40	6th	60·9	48·1	54·3	+ 3·8	86	0	7	0·88	+ 0·27	24·8	- 0·9	31	- 1	Birr Castle.
	b, West. *a* Foynes	65	7th	44	6th	60·8	50·7	55·6	+ 3·4	95	0	7	1·03	+ 0·26	*	*	*	*	*
	a Cahir .. .. M	66	3rd	41	5th, 8th	61·2	48·2	54·5	+ 2·2	88	0	7	1·75	—	*	*	*	*	*
	a Killarney	68	3rd	45	6th	63·6	51·9	57·6	+ 5·5	109	0	7	1·80	+ 0·71	*	*	*	*	*
	a Valencia	65	3rd	50	6th, 7th	61·3	53·3	57·2	+ 3·4	106	0	7	1·62	+ 0·52	27·6	+ 1·1	35	+ 1	Valencia.
	a Roche's Point ..	64	3rd	48	6th	60·6	53·0	56·7	+ 3·3	103	0	6	0·92	+ 0·12	35·4	—	44	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	64	3rd	54	7, 8, 9th	61·3	55·3	58·2	+ 2·3	113	0	6	1·28	+ 0·56	28·6	- 3·5	36	- 4	Scilly.
	a Jersey, St. Aubins ..	67	3rd, 4th	41	7th	63·9	52·3	57·9	+ 0·8	111	0	5	1·28	+ 0·47	25·5	- 9·4	32	-12	St. Heliers.
	a Guernsey	65	9th	45	9th	62·9	53·6	58·1	+ 1·7	113	0	6	1·37	+ 0·52	24·9	- 7·6	31	-10	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 28·0 hrs.* (- *4·0 hrs.*), *35* % (- *5* %); *Bournemouth, 28·1 hrs., 35* %; *Bognor, 28·6 hrs., 36* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	48·6	—
0.	— —				
0.	— —				
1.	Aberdeen	—	—	—	51·2
1.	Crathes	1	30	52·5	52·6
1.	Balmoral	0	31	—	—
1.	West Linton	2	30	—	—
1.	Marchmont	0	31	51·9	—
2.	Cockle Park	0	34	50·2	51·3
2.	Durham	0	32	—	—
2.	York	—	—	54·2	54·7
2.	Hull	0	34	53·3	54·0
2.	Lincoln	—	—	54·4	54·3
2.	Rauceby	0	34	55·1	55·0
3.	Norwich	0	31	—	—
3.	Yarmouth	—	—	56·4	56·9
3.	Lowestoft	0	38	56·3	56·5
3.	Cambridge	2	25	56·6	56·9
3.	Clacton-on-Sea	0	36	57·0	57·6
3.	Southend	0	37	57·6	—
3.	Tottenham	0	38	—	57·3
4.	Harrogate	0	31	52·0	52·1
4.	Huddersfield	0	33	52·6	53·0
4.	Buxton	?	?	53·0	52·5
4.	Sheffield	2	29	53·3	53·2
4.	Nottingham	0	33	53·7	55·2
4.	Birmingham	1	30	52·6	52·3
4.	Oxford	0	32	—	—
4.	Hereford	1	26	—	—
4.	Cirencester	3	27	—	—
5.	Margate	0	40	56·3	56·0
5.	Greenwich	1	29	—	—
5.	Westminster	0	35	—	—
5.	Kew	1	29	56·7	56·0
5.	Canterbury	0	34	55·7	56·4
5.	Tunbridge Wells	1	30	56·5	—
5.	Wisley	0	35	55·7	56·3
5.	Worthing	0	36	57·9	57·7
5.	Portsmouth	0	32	57·7	58·2
6.	Glasgow	0	33	—	—
6.	Rothesay	—	—	?	?
6.	Colmonell	0	42	—	—
6.	Dumfries	0	39	54·0	54·0
6.	Douglas	0	38	—	—
7.	Aspatria	0	38	—	—
7.	Newton Rigg	0	31	53·5	53·0
7.	Burnley	2	30	52·3	52·0
7.	Southport	0	35	55·0	55·9
7.	Manchester City	2	26	55·1	55·0
7.	Bettws-y-Coed	0	38	53·6	53·1
8.	Llangammarch Wells	1	26	54·1	53·6
8.	Cardiff	0	31	55·6	57·5
8.	Clifton	0	37	—	—
8.	Bath	—	—	57·7	57·8
8.	Plymouth	0	34	57·2	—
9.	Armagh	0	39	55·1	55·0
9.	Markree	0	34	55·9	55·7
10.	Dublin, Trin. Coll.	?	?	—	—
11.	Guernsey, Brooklyn	0	40	58·8	59·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	51	50	50·7
SCOTLAND, N.	Kirkwall	52	50	50·8
SCOTLAND, N.	Wick	52	52	52·0
SCOTLAND, E.	Cromarty	54	52	52·8
SCOTLAND, E.	Pennan Bay	53	50	51·7
SCOTLAND, E.	Aberdeen, Cove Bay	54	52	52·9
ENGLAND, N.E.	Burnmouth, Berwick	54	49	51·5
ENGLAND, E.	Scarborough	54	48	52·2
ENGLAND, E.	Shipwash Lightship	62	57	59·1
ENGLAND, S.E.	Margate‡	60	57	58·9
ENGLAND, S.E.	Eastbourne‡	60	59	59·1
SCOTLAND, W.	Lamlash	54	52	53·4
SCOTLAND, W.	Ballantrae	55	53	54·0
ENGLAND, N.W.	Port Erin	56	55	55·2
ENGLAND, S.W.	Newquay	59	58	58·9
ENGLAND, S.W.	Plymouth‡	58	57	57·6
ENGLAND, S.W.	Salcombe	61	56	58·4
IRELAND, N.W.	Sheephaven	56	54	54·6
IRELAND, N.W.	Teelin	58	54	56·1
IRELAND, S.W.	Cleggan	58	54	56·0
IRELAND, S.W.	Seafield	60	54	57·7
IRELAND, E.				

‡ Only one observation each day.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12	13
No. of Kites or Balloons	1	1	1	1	1	2	1	1	2	1	1	1	1
Area of Surface (sq. metres)	5	7	7·6	4	—	1·5	7	4	9	7	7	7·6	7·6
Length of Wire (metres)	1,500	2,050	1,800	600	1,600	3,200	1,850	900	3,500	1,400	2,500	1,900	2,200

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

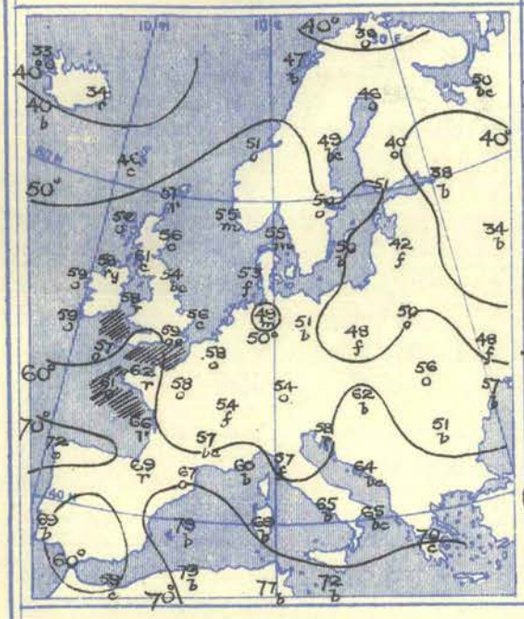
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

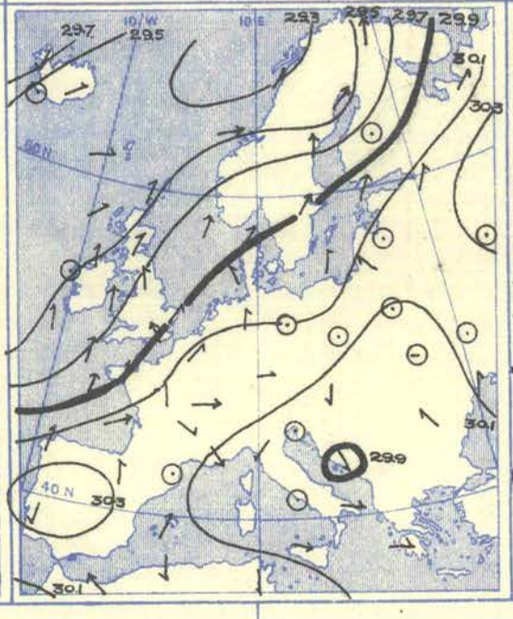
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 3rd October, 1909.

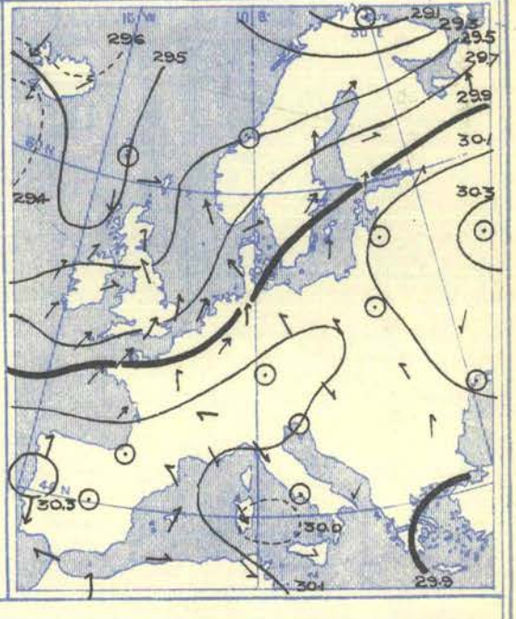
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled, with much cloud, and rain in places, over these Islands, France, and northern Italy. Fair or fine in most other regions, but dull at some stations, and rainy at Patras. Rain later throughout this country and over a considerable portion of the Continent, but remaining dry over the Spanish Peninsula, most of Italy, and Russia.

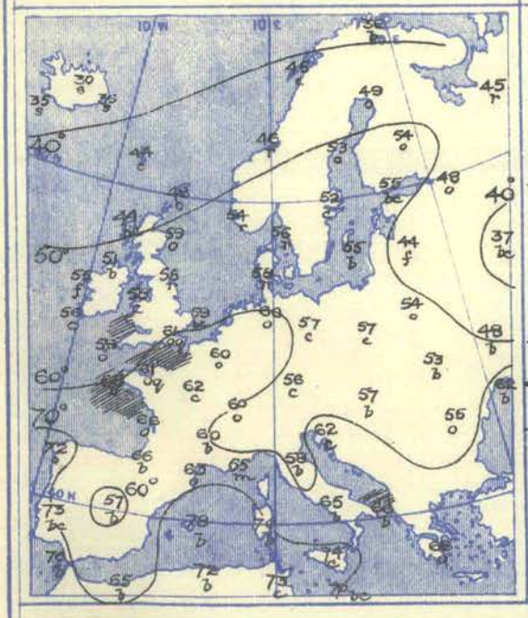
Temperature risen generally. Readings in morning about 60° over the major part of the United Kingdom and the nearer regions of the Continent, and increasing to above 70° at several stations in the far south of our area. Below 40° in the extreme north and north-east of Europe. Maxima during day 65° or rather above in some parts of England and Ireland, and also over the central countries. Above 70° in the south of France and over the Mediterranean region generally, and above 80° in places. Minima of the night very high over this country; as high as 59° at some southern and south-eastern stations.

Wind in morning Southerly to South-Westerly over the British Isles and the western and north-western countries of the Continent, and fresh to strong in places; fresh to strong from North-East in the west of Iceland. A feeble cyclonic circulation prevailing over the Adriatic. No general change occurring during day, but a light North-Westerly breeze setting in on the north-west coast of Scotland, and some increase in force taking place over the Channel and the Netherlands.

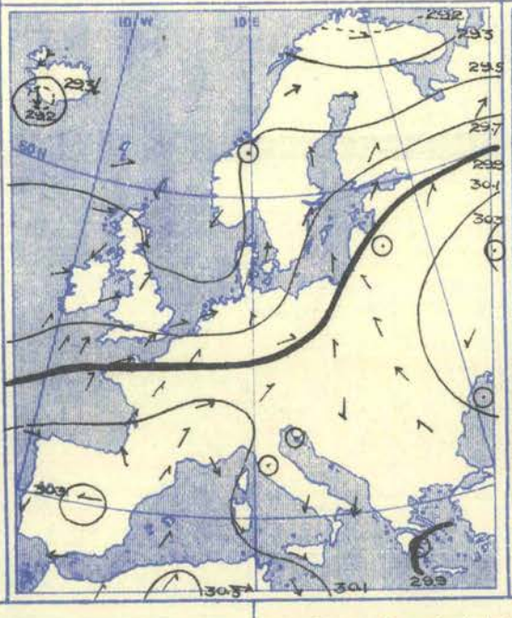
Barometer in morning above 30·3 ins. both in the south-west and north-east of our area, low in the west and north-west, and relatively low in the south-east. A very extensive low pressure system over the Atlantic off the west of this country and between Norway and Iceland. Barometer falling during day over Great Britain and the North Sea, and a fresh fall setting in over Iceland. General distribution becoming less regular.

Monday, 4th October, 1909.

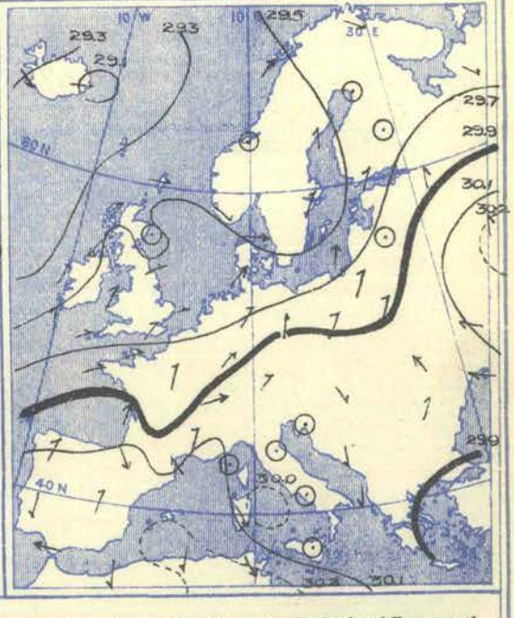
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy over these Islands and the western and northern regions of the Continent, with rain or passing showers in several places; fair to fine generally in the south of our area, but rain falling at Bucharest. Rain experienced later over nearly the whole of the United Kingdom and the northern half of the Continent; heavy amounts in the north of France and over the Netherlands. A thunderstorm occurring at Biarritz.

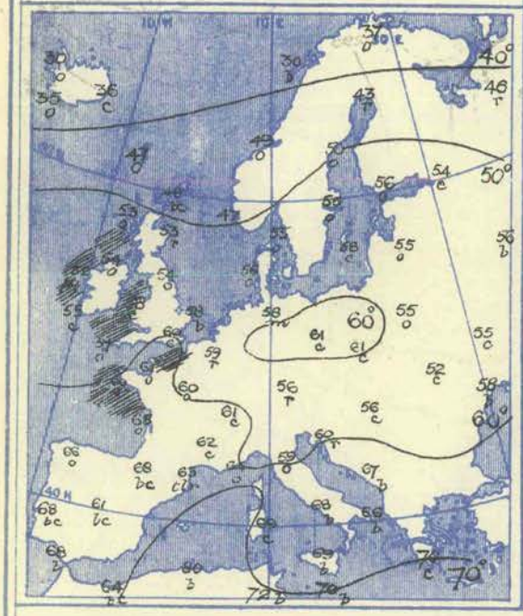
Temperature showing little change. Readings in morning a few degrees below 60° over most of this country and a large portion of the Continent, but decreasing to below 40° in the extreme north, and increasing to 70° or above in the far south. Maxima during day about 65° in various parts of England, Germany, and the Low Countries, and above 70° further south. Thermometer rising to 86° at Biarritz, to 91° at Madrid and San Fernando, and to 98° at Tunis. Night again very mild over England.

Wind in morning moderate to fresh or strong from the Westward over England and France, and light or moderate from the South-Westward over the major part of central and northern Europe; between North-West and North and of little force over the Mediterranean region. Becoming more variable in France by evening, and decreasing somewhat in force over the Channel. Backing on the Atlantic seaboard of these Islands during day, and increasing in strength during night.

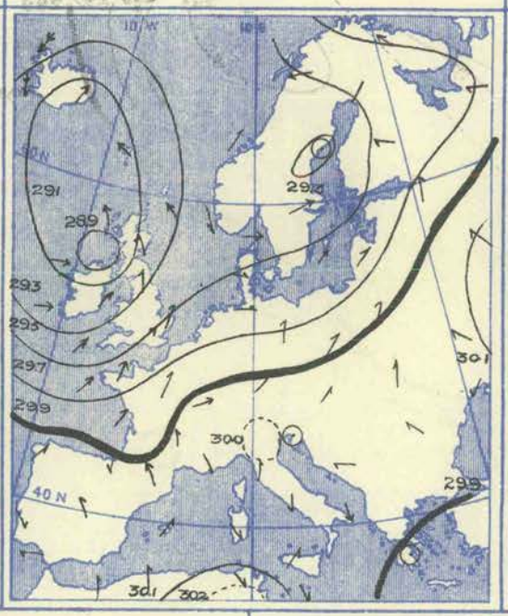
Barometer in morning ranging from 30·3 ins. at Moscow and 30·32 ins. at Madrid to below 29·2 ins. in a depression over the south-west of Iceland. Relatively low over the upper portion of the North Sea, and as low as 29·19 ins. at Vardö. Pressure decreasing decidedly during day over France and the west of these Islands, and falling quickly over our western and north-western districts during night. Iceland depression moving eastward and apparently increasing in depth.

Tuesday, 5th October, 1909.

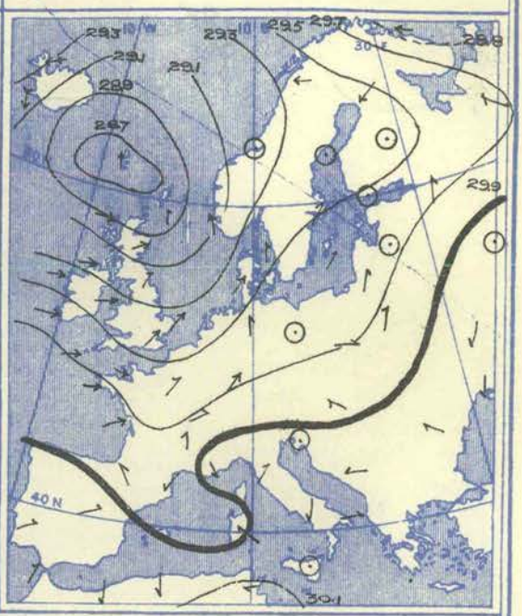
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very cloudy or overcast, with rain at several stations, over these Islands, France, and the northern half of the Continent, but generally fair to fine in the south. Rain in small or moderate amounts later over the United Kingdom, and rather heavy falls over much of the Continent. Thunderstorms in several French localities. Remaining dry in Austria-Hungary, Italy, and most of the Spanish Peninsula.

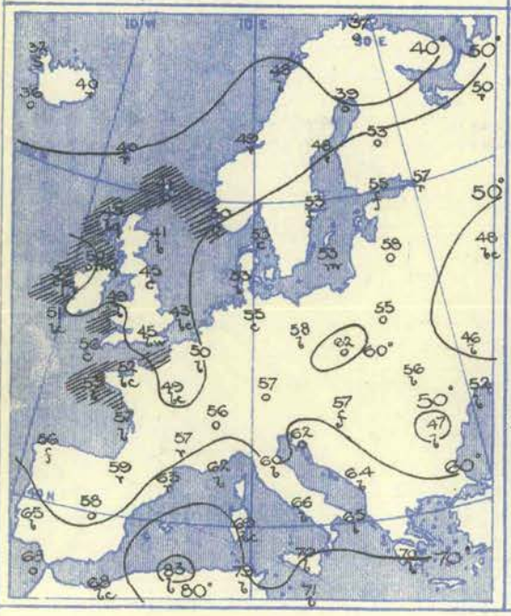
Temperature fallen over the United Kingdom and France, risen in Russia. Readings in morning about 60° in the south of England, over France, and the central countries, above 70° at a few places in the far south, and as high as 80° at Algiers. Below 40° in the extreme north of Scandinavia. Maxima during day above 85° at a few places in the far south of our area, and about 75° at many stations in the south. Thermometer rising to about 65° in the southern districts of England and over a large portion of central Europe. Falling very briskly toward night over this country.

Wind in morning anticyclonic in Russia, but cyclonic elsewhere, the chief circulation being over these Islands and their vicinity. Moderate or light generally, but South-Westerly current fresh or strong in the west and south of this country, and that from North-East blowing a gale in Iceland. Increasing to a gale later in the north of Ireland and the west and north of Scotland, and attaining the force of a whole gale at Malin Head. Gale continuing in Iceland.

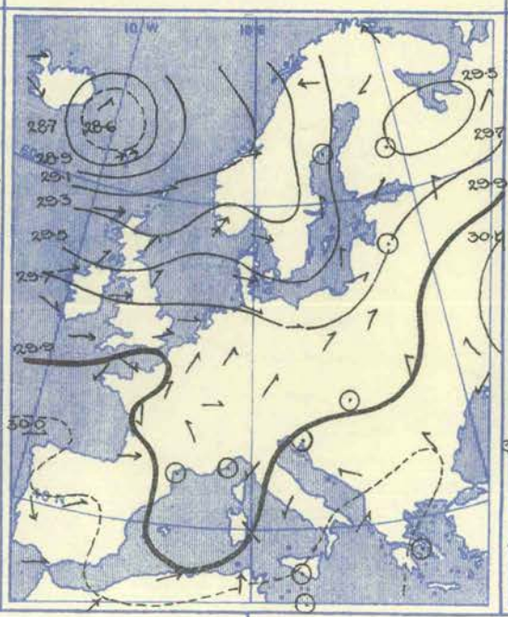
Barometer in morning below 29·0 ins. in a large depression centred off the north of Ireland, and below 29·3 ins. in another centre over Scandinavia. Above 30·1 ins. over central Russia and also in Algeria. Western depression travelling northwards during day and increasing in intensity; pressure rising very briskly in Ireland, and gradient becoming steeper in the north-west and north of these Islands.

Wednesday, 6th October, 1909.

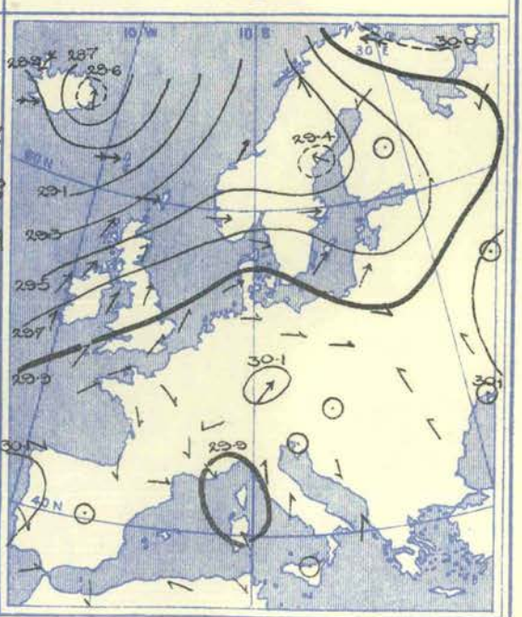
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine over most parts of these Islands, the Mediterranean region, and Russia. Generally cloudy or overcast elsewhere, with rain in several French localities and in some parts of northern Europe, and snow in Iceland. Some rain later in the west and north of these Islands, and also in places over a wide area on the Continent, but quantity generally rather slight.

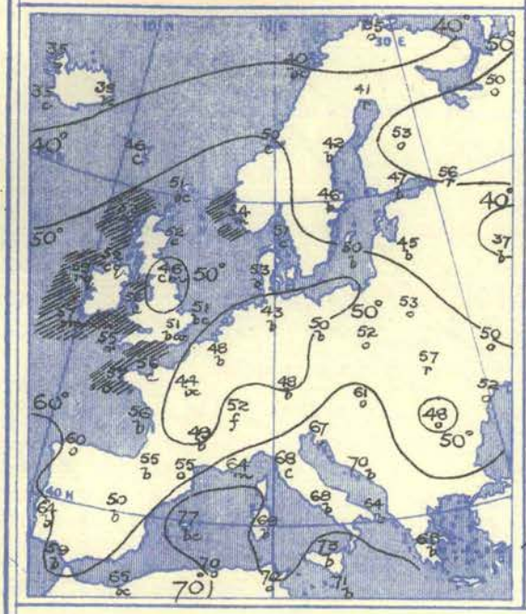
Temperature fallen quickly over this country and the nearer regions of the Continent. Morning readings ranging from 83° at Algiers and above 70° at many southern stations to about 60° in Germany, to 40° at Wick, and to below 40° in the extreme north of the Continent. Thermometer rising to about 60° later in many parts of this country, to 70° or above in the southern countries, and to above 80° in places. Maxima above 90° on the coast of Algeria, and as high as 102° at Cape de Garde.

Wind in morning mainly Westerly over the United Kingdom and the North Sea; moderate generally, but high at Malin Head, and blowing a gale at Skudesnaes, as well as at Thorshavn. Light breezes from somewhat variable points prevailing over the greater portion of the Continent. Gale continuing all day at Thorshavn, and a fresh to strong gale setting in in the west of Iceland by evening. Backing to South and increasing greatly in force during night on our west coasts.

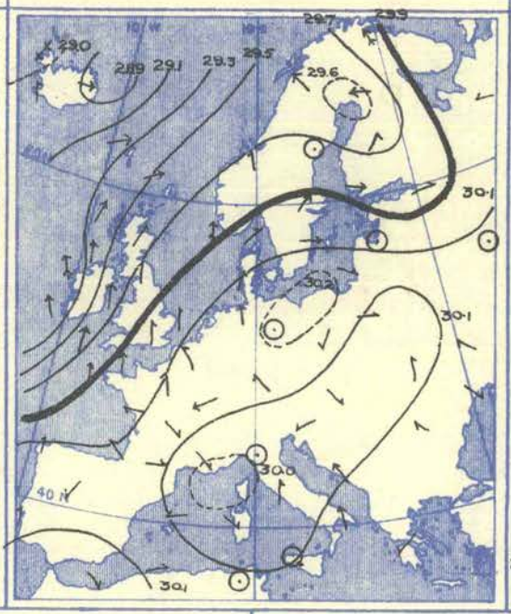
Barometer in morning above 30·0 ins. over southern and central Russia, and also over the extreme south-west of our area. Below 28·6 ins. in a deep depression centred off the south-east of Iceland, and relatively low over the western part of the Mediterranean and in the north of Russia. Pressure increasing over these Islands during day, but a rapid decrease taking place during night in the west, and gradient becoming steep for Southerly winds.

Thursday, 7th October, 1909.

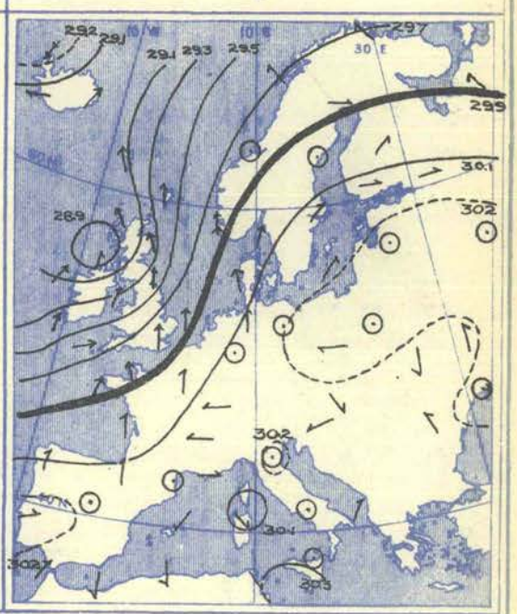
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning rainy in the west and south-west of this country, but fair to fine in the east and also over the major portion of the Continent; rain falling at some places in the far north, as well as at Lemberg. Rain experienced very generally later over this country and the adjacent portion of the Continent. Thunderstorms at Scilly and in Brittany.

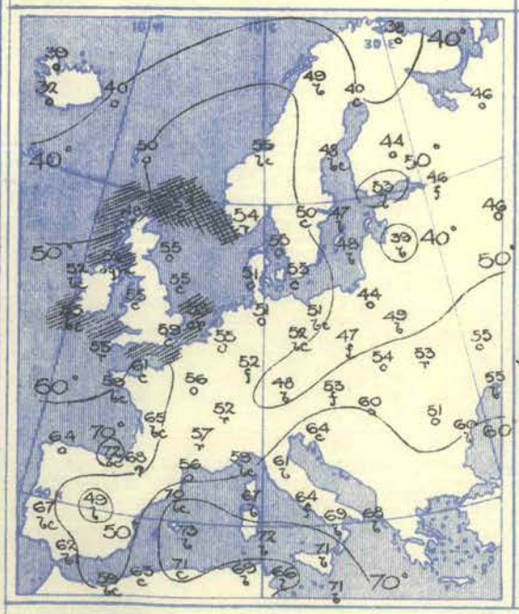
Temperature risen over these Islands, fallen over France and the central countries. Readings in morning below 50° over a large portion of the Continent and at some of our own stations, but increasing to above 60° over the Mediterranean area, and exceeding 70° in some localities. Maxima during day about 60° over most of these Islands, the Netherlands, and Germany, but above 70° very generally in the southern countries, about 80° in places, and above 85° at some Algerian stations.

Wind in morning strong to a gale from the Southward on our western coasts and also at Skudesnaes, and light from the Southward over these Islands and the North Sea region generally. Of little force and somewhat variable in direction elsewhere, but a gale from South-East prevailing at Vardö, and from North-East at Isafjord. Increasing to a fresh or strong gale during day or at night on most of our own coasts, and to a whole gale on the south-west coast of Norway.

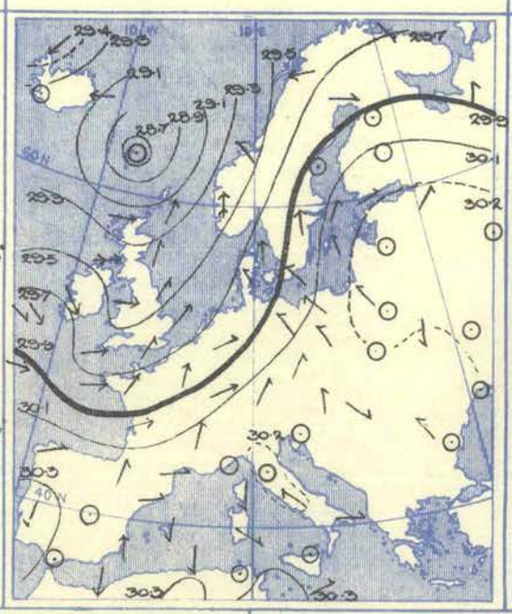
Barometer in morning ranging from above 30·2 ins. in Germany to below 29·6 ins. in a depression in the far north of Sweden, to below 29·2 ins. in the west of Ireland, and to below 28·9 ins. in the east of Iceland. A deep cyclonic system moving northwards off our west coasts during day, and pressure decreasing over the whole Kingdom. Gradient increasing quickly over our northern districts and the North Sea. A brisk rise of the barometer taking place in Iceland.

Friday, 8th October, 1909.

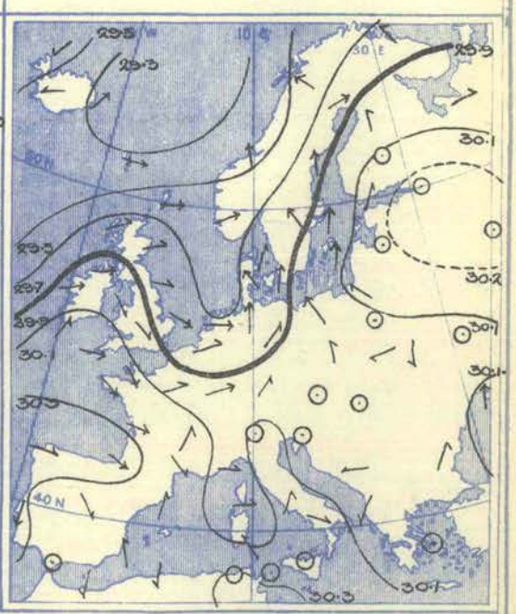
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fair or fine over a large part of southern and central Europe, very unsettled, with rain in many places, over the United Kingdom, France, and the Netherlands, and also in the west of Norway. A little rain later in various parts of these Islands, and as much as 0·7 in. at Spurn Head. Larger quantities falling over France and central Europe, and thunderstorms occurring at some French stations.

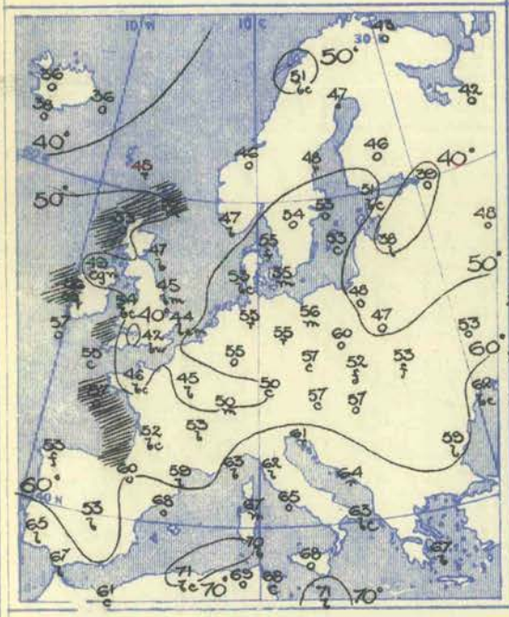
Temperature risen decidedly over this country, France, the Netherlands, and Scandinavia. Readings in morning ranging from about 70° at some places in the far south of our area to about 50° in the central countries, and to below 40° in the extreme north of Europe. Maxima during day above 60° in some British localities and also in many places over central Europe, but above 70° in the south of France and the south of our area generally, about 80° at some stations, and as high as 91° at Tunis.

Wind in morning strong to a gale from the Westward on our most north-west coasts, moderate to fresh over these Islands generally, and strong to a gale from the Southward over the North Sea region. A Northerly gale prevailing in the north-west of Iceland. Blowing a gale from West beyond the north of Scotland during day, but gale subsiding on our north-west coast. Backing towards South by evening or at night in the west of these Islands.

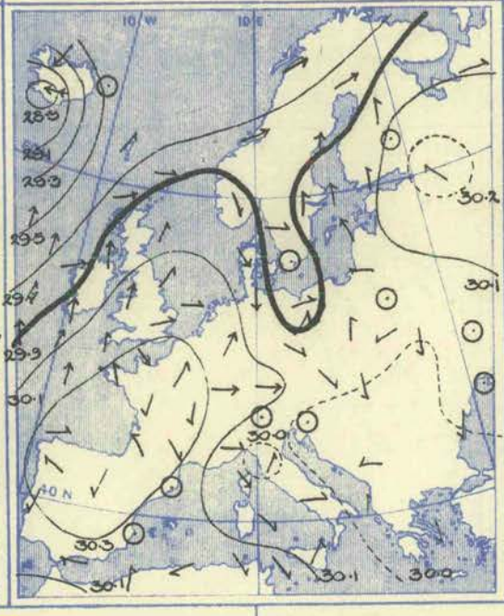
Barometer in morning above 30·3 ins. over the south-west of Spain, and above 30·2 ins. over most of Russia; below 28·7 ins. in a depression having its centre over the Faröe, and relatively low in a "V-shaped" secondary lying over these Islands. Northern depression travelling away towards the Arctic Sea during day, and the subsidiary over this country moving eastwards to the North Sea. Pressure beginning to decrease again on our western coasts during night.

Saturday, 9th October, 1909.

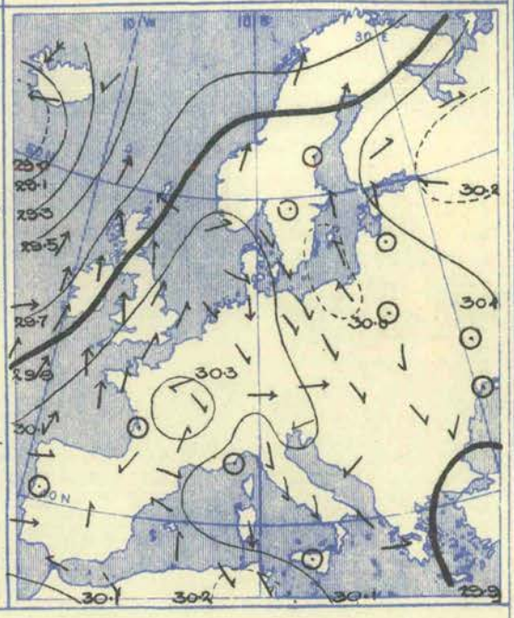
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine and bright over nearly the whole of this country, France, and the Spanish Peninsula; cloudy to overcast in most other regions, with rain on the shores of the Adriatic and in some German localities, as well as at Hernösand. Rain later in most parts of this country, but amounts slight generally. Some heavier falls occurring on the shores of the Adriatic and in a few other districts on the Continent.

Temperature fallen over Great Britain and France. Readings in morning ranging from about 70° at a few places in the far south to about 55° at various stations in central Europe and in the west of these Islands, below 50° over a very large area, and to 39° at St. Petersburg. Maxima during day not much above 60° in any part of this country and Germany, but above 70° very generally in the south of Europe, and as high as 88° at San Fernando.

Wind in morning light to fresh or strong from the Southward in the west and north of these Islands, and strong to a gale from the Eastward in Iceland. Moderate to strong from the Northward on the eastern shores of the North Sea, and mainly Southerly over the Baltic and Sweden. Light anticyclonic movements prevailing in the south-west and north-east of our area. Increasing to a high wind from South on some parts of our western coasts during day, and backing towards South in the east and south-east of England.

Barometer in morning below 29·9 ins. in a large depression having its minimum off the south-west of Iceland, and below 29·9 ins. in a secondary system over Denmark. Above 30·3 ins. over France, the Bay of Biscay, and most of the Peninsula. Pressure decreasing during day over the United Kingdom and the Bay of Biscay region, and also between Iceland and Scotland, but beginning to increase again at Reykjavik. Danish depression travelling eastward.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second). *See* also p. 324.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height. Metres.		Remarks.
1	1909. Oct. 3rd, 3.50 p.m. to 5.0 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	288·5° 100% 240°, 12	240°, 14	286° 100% —°, 14	285° 100% —°, 14				285° 100% —°, 14	1,100	Thick wet mist, wind veering slightly with altitude.
2	Oct. 4th, 9.55 a.m. to 10.55 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	288·5° 85% 225°, 6	287·5° 85% 225°, 12	285·5° 95% 240°, 14	282·5° 100% 255°, 16	284° 60% 270°, 17				1,500	Inversion at 1,050 m. Cloudy. Cloud level, 1,010 m.
3	Oct. 4th, 3.40 p.m to 4.45 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	286° 92 to 100% 202°, 2	285·5° 92 to 100% 210°, 5	285° 92 to 100% 215°, 8					281·5° 99% 235°, 13	890	Dull and wet morning. Thunder showers later. Fair towards evening. Light breeze. Clouds, Cu. and Cu.-Ni.
4	Oct. 5th, 10.30 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	288° 95% 200°, 6	287° 95% 200°, 14	284·5° 100% 205°, 20					282·5° 100% 210°, 23	640	Clouds at 600 m. Very gusty. Broke kite on landing.
5	Oct. 5th, 3.55 p.m. to 4.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282° 90% 270°, 16	281° 90% 278°, 19	280·5° 90% 282°, 21	277° 98% 318°, 24				276·3° 100% 334°, 24	1,100	Overcast morning. Fair later, showers throughout day. Strong breeze morning, gale afternoon, and light breeze at evening. Clouds, Cu. and Cu.-Ni.
6	Oct. 6th, 9.15 a.m. to noon.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281·4° 80% 225°, 4	280·3° 80% 231°, 9	280° 80% 235°, 9	275·5° 94% 245°, 12	272·5° 85% 253°, 17			270·2° 69% 259°, 22	1,900	Overcast early, fair later. Gentle breeze. Clouds, Cu.-Ni., Fr.-Cu., and Str.-Cu.
7	Oct. 6th, 10.0 a.m. to 12.17 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	286° 65% 225°, 5	284·5° 65% 225°, 8	282·5° 70% 235°, 10	280·5° 90% 255°, 14				279·5° 100% 270°, 15	1,400	A few clouds. Wind very variable in direction. Cloud level, 1,200 m.
8	Oct. 7th, 10.16 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	285·5° 90% 160°, 7	284·5° 90% 160°, 10	283° 95% 180°, 17					281° 95% 190°, 22	880	Cloudy, after clear morning. Gale in morning. Wind increasing rapidly with height.
9	Oct. 7th, 11.30 a.m. to 2.10 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	287° 90% 210°, 9		284° 95% 220°, 15	280° 90% 220°, 17	277° 85% 220°, 17	273° 90% 220°, 16		278·5° 90% 220°, 16	2,300	Alt.-St. and Cu., clearing at mid-day. Rain in evening. Wind increased from 14 to 20 m. per s. during the ascent.
10	Oct. 8th, 9.50 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	287° 80% 250°, 6	286° 80% 250°, 10	283·5° 95% 260°, 14	282° 80% 270°, 15				282° 60% 270°, 17	1,170	Clouds at 800 m.
11	Oct. 8th, 10.30 a.m. to 12.10 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	287° 95% 270°, 9	285·5° 95% 270°, 12	282° 85% 280°, 15	278° 85% 280°, 15	273° 85% 280, 15			272° 85% 280°, 15	1,600	Various types of cloud. Lowest at 1,300 m. Clearing.
12	Oct. 8th, 3.30 p.m. to 4.35 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282·3° 70% 292°, 16	281·8° 70% 300°, 16	281° 71% 304°, 17	277° 80% 316°, 21				278·8° 80% 308°, 18	1,450	Fair generally, some showers. Gale. Clouds, Cu. and Cu.-Ni.
13	Oct. 9th, 11.15 a.m. to 1.0 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	285° 70% 175°, 6	284° 65% 182°, 9	283·5° 65% 184°, 10	279·3° 45% 201°, 15	277·3° 49% 213°, 15			277° 49% 214°, 15	1,585	Fine. Calm at sunrise, moderate breeze later. Clouds, Str.-Cu. High wind at about 700 m. rendered use of 2nd kite impossible.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 41. FORTY-FIRST WEEK, SUNDAY, OCTOBER 10TH TO SATURDAY OCTOBER 16TH, 1909. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—General Remarks.

Weather was again very unsettled. Rain fell almost daily (often in large quantities) and intervals of sunshine were mostly brief. Thunder and lightning, or lightning singly, were experienced in some parts of Ireland, Scotland, and the north of England early in the week, and a thunderstorm occurred at Hull at midnight on Saturday.

Temperature continued above the average, the excess amounting to about 5° in England E. and the Midland Counties. The highest of the maxima were registered at most stations between the 10th and 12th; in England E., N.E. and N.W., and also in the Midland Counties, the thermometer rose to 66°, while in the other districts the readings ranged from 65° in England S.E., S.W., and the English Channel, to 60° in Scotland N. The lowest of the minima, which occurred generally on the 13th or 14th, ranged from 33° in Ireland N. and 35° or 36° in several other parts of the Kingdom to 41° in England N.E. and to 43° in the English Channel. The lowest grass readings reported were 23° at Cambridge, 25° at Cirencester, 28° at Markree Castle, 29° at Kew, Greenwich, and Sheffield, and 30° at Llangammarch Wells, Crathes, and Balmoral.

Mean Temperature of the Sea. At nearly every station the water was colder than during the corresponding week of last year, the greatest difference being 4° at Cromarty. The mean values for the week varied from 58°·7 at Eastbourne and about 58° at Newquay, Salcombe, and the Shipwash Lightship to less than 51° at some places on the north-east coast, and to 49°·6 at Kirkwall.

Rainfall exceeded the normal in all districts except England E., the excess being very large in Scotland, Ireland, and the west and south of England. Falls of an inch or more in twenty-four hours were very numerous and were experienced over a large area in Great Britain—generally on the 12th, 13th or 14th, but in a few western localities on the 15th. Among the largest daily measurements recorded were 1·4 inch at Douglas and Holyhead, 1·5 inch at Dumfries, and 1·8 inch at Aspatria on the 12th; 1·0 inch at Gordon Castle and Balmoral, and 1·2 inch at Leith on the 13th; 1·0 inch at Bettws-y-Coed, 1·1 inch at Poltalloch; 1·2 inch at Glencarron, 1·4 inch at Fort William, and 1·9 inch at Laudale on the 14th, and 1·1 inch at Llangammarch Wells, 1·4 inch at Clifton, and 2·2 inches at Arlington on the 15th. Heavy falls were recorded in many places along the south coast both on the 15th and 16th; at Southampton the aggregate amount for the two days was 1·5 inch, and at Westbourne 1·7 inch.

Bright Sunshine was less than the average in most districts, the percentages of the possible amount of duration ranging from 33 per cent. in the Midland Counties and 31 per cent. in England N.E., to 21 per cent. in Ireland S., and to 15 per cent. in Scotland W.

Barometer and Wind.—The type of pressure distribution was Southerly to South-Westerly throughout the period. The main cyclonic systems of the early days of the week travelled in a northerly direction outside our western and north-western coasts, while some of their secondaries, which came directly over these islands, moved in a similar direction. The force of the Southerly and South-Westerly winds was generally fresh to strong or high on all the western and southern coasts, but the very large and deep disturbance of Thursday and Friday, which travelled in an east-south-easterly direction from Iceland caused a gale, over almost the whole Kingdom, its greatest strength being experienced on the north-western and northern coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 324.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Moderate	Very unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Very heavy	Very heavy	Moderate	Moderate	Heavy	Heavy	Very heavy	Heavy	Very heavy	Heavy	Heavy	Heavy
	Sunshine ...	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Scanty	Moderate	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 6 weeks from Sept. 5th, 1909.	Warmth ...	1 • 2	1 • 2	1 • 2	2 • 1	2 • 1	2 • 2	2 • 2	2 • 2	2 • 2	3 • 2	3 • 2	2 • 1
	Rainfall ...	2 • 3	3 • 1	0 • 1	1 • 0	2 • 0	3 • 0	2 • 1	2 • 1	2 • 1	2 • 2	3 • 3	3 • 1
	Sunshine ...	1 • 2	1 • 3	0 • 3	0 • 3	0 • 3	0 • 2	1 • 4	1 • 1	0 • 2	1 • 2	1 • 2	1 • 4

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 • 2	8 • 3	10 • 1	7 • 2	8 • 2	6 • 2	10 • 2	7 • 2	6 • 2	10 • 2	9 • 2	10 • 2
	Rainfall ...	5 • 6	5 • 5	3 • 6	2 • 5	2 • 5	1 • 7	5 • 5	2 • 5	2 • 5	3 • 6	4 • 4	2 • 6
	Sunshine ...	3 • 3	4 • 6	2 • 4	4 • 3	3 • 4	8 • 1	1 • 7	6 • 4	4 • 3	2 • 5	1 • 6	7 • 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 • 2	3 • 2	2 • 7	4 • 6	2 • 6	4 • 6	3 • 2	4 • 6	4 • 6	6 • 1	4 • 2	5 • 5
	Rainfall ...	2 • 6	3 • 5	1 • 6	3 • 7	3 • 7	4 • 8	4 • 3	2 • 6	4 • 8	3 • 4	3 • 6	5 • 8
	Sunshine ...	6 • 2	5 • 3	3 • 3	4 • 6	4 • 6	5 • 4	4 • 2	8 • 1	6 • 2	4 • 5	2 • 4	6 • 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 • 3	5 • 7	6 • 2	4 • 1	6 • 2	3 • 4	6 • 1	6 • 3	4 • 4	6 • 2	4 • 4	5 • 1
	Rainfall ...	3 • 5	8 • 2	7 • 5	7 • 4	6 • 4	6 • 3	5 • 4	6 • 5	5 • 4	5 • 4	6 • 4	5 • 4
	Sunshine ...	2 • 2	3 • 4	4 • 5	5 • 5	6 • 4	6 • 4	5 • 4	7 • 4	6 • 4	5 • 5	6 • 3	5 • 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 • 7	1 • 8	2 • 7	2 • 9	2 • 7	2 •10	1 • 7	1 • 8	2 • 7	1 • 5	1 • 4	2 • 8
	Rainfall ...	3 • 5	2 • 6	5 • 6	5 • 3	4 • 4	5 • 5	4 • 4	5 • 4	4 • 6	1 • 5	1 • 9	2 • 7
	Sunshine ...	5 • 3	4 • 3	1 • 7	3 • 6	3 • 6	4 • 7	2 • 4	3 • 6	4 • 5	3 • 5	4 • 5	4 • 4

8165 450 Wy. & S. Ltd. 10—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-FIRST WEEK—October 10th to October 16th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	60	38	53·8	44·0	48·8	+ 2·1	48	+ 8	0	- 6	7	+ 2	2·87	+1·62	12	- 5	16	- 7
Eastern																		
1. SCOTLAND, EAST	64	35	55·7	43·2	49·3	+ 2·4	51	+ 8	0	- 7	7	+ 3	2·00	+1·26	17	- 4	22	- 5
2. ENGLAND, N.E.	66	40	59·0	46·6	52·6	+ 3·8	74	+ 24	0	- 3	6	+ 2	0·64	-0·02	23	0	31	0
3. ENGLAND, EAST	66	36	61·4	48·9	54·9	+ 5·1	90	+ 31	0	- 4	5	+ 1	0·62	-0·01	22	- 3	30	- 4
4. MIDLAND COUNTIES	66	35	60·3	47·1	53·5	+ 4·9	81	+ 28	0	- 5	6	+ 2	1·18	+0·51	25	+ 3	33	+ 3
5. ENGLAND, S.E.	65	35	60·9	50·5	55·6	+ 4·5	95	+ 28	0	- 3	6	+ 2	1·47	+0·75	21	- 4	28	- 5
Western																		
6. SCOTLAND, WEST	62	41	55·6	46·2	50·8	+ 2·5	62	+ 13	0	- 4	7	+ 3	2·86	+1·75	12	- 9	15	-11
7. ENGLAND, N.W.	66	39	58·7	48·1	53·2	+ 3·6	78	+ 23	0	- 1	7	+ 2	1·82	+0·89	18	- 3	23	- 4
8. ENGLAND, S.W.	65	36	59·4	50·8	55·0	+ 4·1	91	+ 27	0	- 2	7	+ 3	2·62	+1·59	18	- 6	24	- 8
9. IRELAND, NORTH	62	33	56·7	45·8	51·1	+ 2·4	64	+ 14	0	- 2	6	+ 1	1·43	+0·55	21	+ 1	28	+ 1
10. IRELAND, SOUTH	64	39	58·0	48·1	52·9	+ 2·8	76	+ 17	0	- 2	7	+ 3	1·54	+0·67	16	- 8	21	-11
11. ENGLISH CHANNEL	65	43	61·3	54·2	57·6	+ 3·3	109	+ 23	0	0	7	+ 2	1·38	+0·50	20	- 10	26	-12

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 6 Weeks, September 5th to October 16th, 1909.

0. SCOTLAND, NORTH	68	32	*	*	*	*	342	- 19	0	-12	28	- 1	6·55	-0·29	146	+ 15	29	+ 3
Eastern																		
1. SCOTLAND, EAST	70	26	*	*	*	*	344	- 44	4	-11	27	+ 3	4·71	+1·04	136	- 18	27	- 4
2. ENGLAND, N.E.	70	33	*	*	*	*	457	0	0	- 5	27	+ 6	2·92	-0·08	128	- 46	25	- 9
3. ENGLAND, EAST	74	36	*	*	*	*	541	+ 21	0	- 7	27	+ 7	3·01	-0·02	152	- 40	30	- 8
4. MIDLAND COUNTIES	71	33	*	*	*	*	484	+ 9	0	-10	30	+10	4·26	+1·08	127	- 43	25	- 8
5. ENGLAND, S.E.	71	33	*	*	*	*	578	+ 8	0	- 4	30	+10	5·59	+2·07	161	- 35	32	- 7
Western																		
6. SCOTLAND, WEST	70	31	*	*	*	*	426	+ 2	0	- 7	25	+ 1	6·70	+0·60	133	- 27	26	- 5
7. ENGLAND, N.W.	69	32	*	*	*	*	467	- 14	0	- 2	26	+ 2	5·79	+1·18	146	- 16	29	- 3
8. ENGLAND, S.W.	72	30	*	*	*	*	543	+ 10	0	- 2	27	+ 4	6·55	+1·66	162	- 24	32	- 5
9. IRELAND, NORTH	68	30	*	*	*	*	456	+ 12	0	- 3	27	0	5·15	+0·40	148	+ 1	29	0
10. IRELAND, SOUTH	72	32	*	*	*	*	524	+ 29	0	- 3	30	+ 7	4·72	+0·41	168	- 8	33	- 1
11. ENGLISH CHANNEL	74	41	*	*	*	*	687	+ 29	0	0	28	+ 4	4·47	+0·35	195	- 35	39	- 7

THE YEAR.—Aggregates, &c., for the Period of 41 Weeks, January 3rd to October 16th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1770	-145	535	- 34	192	+ 3	32·11	-6·14	1027	+ 12	27	0
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	1939	-219	677	+ 42	164	+ 7	26·17	+2·03	1155	- 51	31	- 1
2. ENGLAND, N.E.	85	14	*	*	*	*	2380	- 27	580	+100	149	+ 8	20·92	+2·46	1243	- 65	33	- 2
3. ENGLAND, EAST	85	12	*	*	*	*	2638	-142	554	+ 26	150	+14	18·29	+0·35	1451	+ 31	39	+ 1
4. MIDLAND COUNTIES	86	8	*	*	*	*	2579	-132	642	+ 99	145	+10	21·26	+1·32	1296	+ 28	35	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	2759	-230	482	+ 97	143	+13	22·96	+3·33	1543	+104	41	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2207	-120	445	+ 13	159	- 5	35·70	+0·75	1269	+ 19	33	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2391	-157	466	+ 78	154	+ 3	27·36	+1·54	1347	+ 88	36	+ 2
8. ENGLAND, S.W.	89	7	*	*	*	*	2655	-170	390	+ 87	151	+ 3	26·89	-0·65	1494	+ 91	40	+ 3
9. IRELAND, NORTH	78	14	*	*	*	*	2373	- 58	315	- 33	182	+ 3	26·90	-1·71	1112	- 26	30	- 1
10. IRELAND, SOUTH	81	15	*	*	*	*	2767	- 14	265	+ 3	169	+11	25·75	-3·74	1293	+ 10	35	0
11. ENGLISH CHANNEL	84	25	*	*	*	*	3247	+ 3	151	+ 42	139	-18	20·34	-2·46	1782	+ 75	48	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked 𝔐 is supplied by the Royal Meteorological Society, and that for Stations marked 𝔖 is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*56*	*11th*	42	*15th*	*52·7*	*45·4*	*48·9*	—	*43*	*0*	*6*	*1·64*	—	*20·8*	—	*29*	—	*Balta Sound.*
	a Sumburgh Head	55	10, 11, 12th	41	15th	53·1	45·3	49·1	+ 2·5	50	0	7	1·54	+ 0·61	18·7	- 1·2	25	- 2	Deerness.
	a Stornoway	56	10th, 11th	42	15th	53·1	44·7	48·8	+ 1·7	48	0	7	2·86	+ 1·61	8·5	-12·1	12	-16	Stornoway.
	a Castlebay, Barra Isd.	*56*	*10th*	*43*	*15th*	*53·6*	*46·7*	*50·1*	+ *1·3*	*57*	*0*	*7*	*1·86*	—	*14·4*	—	*19*	—	*Castlebay.*
	a Wick	57	10th	40	14th, 15th	54·1	44·1	49·0	+ 1·4	49	0	7	1·40	+ 0·71	*	*	*	*	
	a Strathpeffer	60	10th	39	11th, 15th	53·8	41·9	47·7	+ 0·9	40	0	7	1·87	+ 1·23	15·4	- 6·2	21	- 8	Strathpeffer.
	p Glencarron	60	10th	38	14th	54·4	41·0	47·5	+ 1·6	43	3	7	4·17	+ 2·07	*	*	*	*	
	p Fort Augustus	59	10th, 11th	41	11th	54·3	45·3	49·7	+ 2·1	54	0	7	3·82	+ 2·87	6·7	- 8·3	9	-11	Fort Augustus.
	p Fort William	60	11th	44	14th, 15th	54·0	45·9	49·8	+ 1·0	55	0	7	4·41	+ 2·65	*	*	*	*	
1. SCOTLAND E.	*p* Gordon Castle S	62	10th	39	13th, 14th	57·0	42·3	49·4	+ 1·0	52	0	7	1·54	+ 0·79	*21·2*	—	*28*	—	*Gordon Castle.*
	a Nairn	62	10th	38	15th	56·4	41·9	48·9	+ 1·4	49	0	6	1·77	+ 1·24	19·4	—	26	—	Nairn.
	a Aberdeen	60	10th	40	15th	56·7	44·1	50·2	+ 1·9	57	0	6	0·84	+ 0·19	21·1	- 2·5	28	- 3	Aberdeen.
	a Balmoral	61	11th	35	12th	55·0	39·9	47·2	+ 2·7	45	6	5	2·40	+ 1·59	18·0	—	24	—	Crathes S.
	p Crieff	58	10th. 11th	41	12, 13, 14, 15	53·9	43·1	48·3	+ 0·1	44	0	7	3·21	+ 2·37	10·1	—	14	—	Balruddery
	a Leith	64	11th	43	14th	57·6	47·1	52·2	+ 2·4	71	0	7	2·23	+ 1·76	19·7	0·0	26	0	Edinburgh.
	a West Linton	60	11th	40	12th, 14th	53·1	43·1	48·0	+ 1·4	42	0	7	3·01	—	*11·9*	—	*16*	—	*West Linton.*
	p Marchmont	62	11th	40	15th	56·0	43·9	49·8	+ 2·4	55	0	7	1·03	+ 0·24	12·6	- 8·7	17	-12	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle	62	11th	40	14th	57·5	45·6	51·4	+ 3·8	66	0	6	0·40	- 0·40	21·9	—	29	—	Cockle Park.
	a Shields	62	11th	42	14, 15, 16th	58·6	44·4	51·3	+ 2·1	65	0	6	0·37	- 0·29	*18·6*	+ *1·1*	*25*	+ *2*	*Newcastle.*
	p Durham	61	11th, 12th	41	14th	57·4	44·5	50·8	+ 2·2	62	0	6	0·42	- 0·26	21·5	- 0·3	28	*0*	Durham.
	p Rounton M	63	11th	42	14th	58·2	46·4	52·1	+ 4·0	71	0	5	0·64	0·00	*	*	*	*	
	p Scarborough M	62	11th	42	14th	59·0	49·1	53·9	+ 3·8	83	0	5	0·60	- 0·10	23·1	—	30	—	Scarborough.
	p York	64	11th	41	14th	60·0	45·4	52·5	+ 2·7	74	0	6	0·70	+ 0·12	18·1	- 3·0	24	- 4	York.
	a Spurn Head	61	11th, 16th	45	14th	59·3	48·4	53·7	+ 2·6	82	0	5	0·85	+ 0·35	*	*	*	*	
	a Lincoln	66	11th	42	14th	60·7	47·4	53·9	+ 4·3	83	0	7	1·20	+ 0·64	28·2	—	37	—	Skegness.
	a Fulbeck	63	11th	44	14th	60·2	48·4	54·1	+ 4·7	85	0	6	0·59	+ 0·05	26·8	—	35	—	Rauceby.
															20·8	—	*27*	—	*Lowestoft.*
3. ENGLAND, E.	*p* Cromer	65	10th, 11th	41	14th	61·4	48·0	54·5	+ 3·7	88	0	5	0·65	—	29·2	—	38	—	Cromer.
	p Hillington M	65	11th	37	14th	61·3	46·9	53·9	+ 3·8	83	0	5	0·84	+ 0·16	20·4	- 4·0	27	- 5	Hillington.
	a Yarmouth	62	12th	43	15th	60·7	48·9	54·6	+ 3·4	88	0	4	0·25	- 0·40	25·0	—	33	—	Yarmouth.
	a Norwich	63	10th, 11th	40	14th	61·3	48·8	54·9	+ 3·6	90	0	5	0·61	—	*	*	*	*	
	p Geldeston	64	10th, 12th	42	14th	62·8	49·2	55·6	+ 5·0	95	0	5	0·30	- 0·33	26·6	- 0·9	35	- 1	Geldeston.
	p Cambridge	66	11th	36	14th	62·3	47·9	54·9	+ 4·6	90	0	5	0·64	+ 0·13	21·0	- 5·5	28	- 7	Cambridge.
	a Felixstowe	*62*	*12th*	*46*	*14th*	*60·9*	*53·3*	*57·0*	+ *5·2*	*105*	*0*	*5*	*0·26*	—	*27·9*	—	*37*	—	*Felixstowe.*
	a Clacton-on-Sea	62	12th	42	10th	60·7	50·1	55·2	+ 3·4	92	0	5	0·31	—	21·0	—	28	—	Clacton.
	a Rothamsted	63	11th	39	14th	59·9	49·1	54·3	+ 4·9	86	0	7	1·15	+ 0·49	19·9	- 6·4	26	- 8	Rothamsted.
	a Shoeburyness	*63*	*11th, 12th*	*47*	*14th*	*62·0*	*53·7*	*57·2*	+ *4·6*	*106*	*0*	*3*	*0·35*	- *0·13*	*24·1*	—	*32*	—	*Southend.*
	p Tottenham	65	11th	43	14th	62·3	51·0	56·5	+ 6·1	102	0	7	0·87	—	15·9	—	21	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	61	11th	41	14th	57·5	46·5	51·8	+ 3·5	69	0	7	0·86	+ 0·15	19·3	—	25	—	Harrogate.
	a Bawtry	65	11th	40	14th	61·9	48·9	55·2	+ 6·2	92	0	7	1·08	+ 0·54	27·7	+ 7·2	36	+ 9	Worksop.
	p Buxton M	*59*	*11th, 16th*	*42*	*14th*	*56·4*	*45·3*	*50·7*	+ *4·1*	*61*	*0*	*7*	*2·32*	+ *1·25*	*30·9*	—	*41*	—	*Buxton.*
	a Nottingham	65	11th	38	14th	60·9	44·9	52·7	+ 2·9	75	0	5	0·79	+ 0·25	28·5	—	38	—	Nottingham.
	p Birmingham, Edgbsn	64	11th	42	14th	59·7	47·2	53·3	+ 4·1	79	0	7	1·43	+ 0·85	24·4	—	32	—	Birmingham.
	a Raunds M	66	16th	38	14th	62·0	47·9	54·7	+ 4·9	89	0	7	0·60	—	*	*	*	*	
	a Oxford	64	11th	42	14th	60·7	48·3	54·3	+ 4·0	86	0	6	1·39	+ 0·50	24·2	- 1·0	32	- 1	Oxford.
	a Cheadle M	60	11th, 16th	38	10th	57·7	45·7	51·5	+ 3·3	67	0	7	1·94	+ 1·24	31·0	—	41	—	Sheffield.
	p Shrewsbury	64	11th	40	14th	61·2	46·5	53·6	+ 3·4	81	0	6	1·19	—	*	*	*	*	
	a Hereford M	64	16th	41	14th	60·9	48·7	54·6	+ 4·4	88	0	6	0·78	+ 0·21	*	*	*	*	
	a Cirencester	62	16th	35	14th	59·1	46·5	52·6	+ 3·3	74	0	6	1·69	+ 1·02	22·2	- 2·5	29	- 3	Cirencester.
	a Bath	63	11th, 16th	37	14th	61·4	47·3	54·1	+ 2·6	85	0	7	1·54	+ 0·88	23·4	—	31	—	Bath.
															24·2	—	*31*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	64	11th	41	14th	61·1	50·6	55·7	+ 4·8	96	0	6	0·84	+ 0·26	19·2	- 4·7	25	- 6	Kew.
	a Marlborough	62	11th	36	14th	59·3	48·1	53·5	+ 4·7	81	0	7	2·19	+ 1·54	21·2	- 1·8	28	- 2	Marlborough.
	a Margate	64	11th, 12th	45	14th	62·2	51·9	56·9	+ 4·2	104	0	6	0·42	- 0·15	22·6	- 4·0	30	- 5	Margate.
	a Wisley, Surrey	64	11th	40	14th	61·5	50·1	55·6	+ 4·2	95	0	7	0·79	—	20·8	—	27	—	Wisley.
	a Swarraton M	63	11th	35	14th	59·4	47·0	53·0	+ 3·2	77	0	7	2·46	+ 1·70	17·5	—	23	—	Worthing.
	a Tunbridge Wells M	63	11th	41	14th	60·4	49·6	54·8	+ 4·4	90	0	6	1·56	+ 0·80	25·4	- 2·2	33	- 3	Tunbridge Wells.
	a Dungeness	63	11, 12, 13th	40	10th	61·7	50·4	55·9	+ 2·6	97	0	5	0·73	+ 0·08	26·1	—	34	—	Littlestone.
	p Hastings	64	12th	45	14th	61·6	52·1	56·7	+ 3·8	103	0	6	0·80	- 0·02	*26·6*	- *3·1*	*35*	- *4*	*Hastings.*
	p Southampton	65	11th	41	14th	61·2	50·9	55·9	+ 3·5	97	0	7	2·77	+ 2·03	20·3	- 7·7	26	-10	Southampton.
	a Ventnor	62	11th, 12th	50	14th	61·0	54.5	57·7	+ 3·4	110	0	7	2·09	+ 1·51	17·3	-12·9	23	-17	Ventnor.
LONDON	*a Westminster*	*64*	*11th*	*42*	*10, 14, 15th*	*61·9*	*47·7*	*54·6*	+ *4·0*	*88*	*0*	*6*	*0·83*	+ *0·26*	*18·5*	+ *0·8*	*24*	+ *1*	*Westminster.*
	a Greenwich	*66*	*11th*	*40*	*14th*	*63·3*	*50·2*	*56·6*	+ *5·0*	*102*	*0*	*6*	*0·69*	+ *0·16*	*22·5*	- *2·1*	*30*	- *3*	*Greenwich.*
6. a, SCOTLAND. W.	*p* Laudale	?60	11th	45	11, 13, 14th	55·2	46·4	50·7	+ 1·6	61	0	7	5·23	+ 3·53	*	*	*	*	
	a Poltalloch S	57	10th	42	12th, 13th	54·0	44·0	48·9	0·0	48	0	7	3·53	+ 2·39	*	*	*	*	
	p Glasgow	60	10th, 11th	44	13th, 14th	55·1	46·9	50·9	+ 2·7	62	0	7	2·66	+ 1·89	8·5	- 8·9	11	-12	Glasgow.
	p Rothesay S	59	14th	45	10th, 13th	55·9	46·3	51·0	+ 1·8	63	0	7	2·65	+ 1·66	*	*	*	*	
	a Kilmarnock	60	10th	42	15th	56·7	44·7	50·5	+ 1·9	60	0	5	1·95	—	*7·4*	—	*10*	—	*Kilmarnock.*
6. b, ISLE OF MAN	*a* Colmonell	59	11th	44	14th	55·7	47·4	51·4	+ 2·3	66	0	7	2·36	+ 1·36	*	*	*	*	
	p Dumfries	62	12th	41	15th	56·6	47·1	51·7	+ 2·9	68	0	7	3·04	+ 2·24	*6·5*	—	*9*	—	*Dumfries.*
	p Cally, Gatehouse S	57	10th, 11th	43	13th	54·8	44·4	49·5	+ 1·4	53	0	7	1·22	+ 0·15	*	*	*	*	
	p Douglas	59	13th	44	13th	56·5	48·4	52·3	+ 2·4	72	0	6	3·09	+ 2·06	14·7	-10·5	19	-14	Douglas.
															21·4	—	28	—	Hoylake.
7. a, ENGLAND, N.W.	*p* Aspatria	65	11th	44	13th	58·4	48·2	53·2	+ 4·4	78	0	7	3·40	+ 2·50	14·3	—	19	—	Aspatria.
	p Newton Rigg	62	11th	40	14th	58·2	46·5	52·2	+ 4·7	71	0	7	1·59	+ 0·74	14·8	- 6·1	20	- 8	Newton Rigg.
	p Stonyhurst	62	11th	42	13th	57·6	46·9	52·1	+ 3·7	71	0	7	1·40	+ 0·35	13·4	- 8·5	18	-11	Stonyhurst.
	p Blackpool M	64	10th	45	12th, 14th	59·0	48·9	53·8	+ 3·5	83	0	7	1·31	+ 0·46	15·9	- 6·9	21	- 9	Blackpool.
	p M nch'ster, Prestwich	62	11th	43	14th	59·1	47·0	52·9	+ 3·7	76	0	7	1·32	+ 0·43	*20·6*	+ *4·0*	*27*	+ *5*	*Prestwich.*
7. b, NORTH WALES	*a* Liverpool (Bidston)	63	11th	43	14th	58·4	47·3	52·7	+ 1·8	75	0	7	1·02	+ 0·27	*24·0*	—	*32*	—	*Liverpool.*
	a Hawarden Bridge	64	10th, 11th	43	14th	60·3	50·8	55·4	+ 4·2	94	0	7	0·93	+ 0·28	*20·3*	- *1·5*	*27*	- *2*	*Southport.*
															22·2	—	*29*	—	*Rhyl.*
	p Llandudno M	64	11th	45	14th	59·5	49·4	54·3	+ 2·7	86	0	7	1·55	+ 0·76	20·9	- 1·2	28	- 2	Llandudno.
	a Holyhead	59	10th, 11th	46	14th	56·9	50·6	53·7	+ 1·9	82	0	7	2·44	+ 1·60	20·6	—	27	—	Aberdovey.
	p Bettws-y-Coed	66	11th	39	10th, 11th	59·1	45·0	51·8	+ 0·9	69	0	7	3·28	—	18·7	—	25	—	Bettws-y-Coed.
															17·2	—	23	—	Aberystwyth.
8. a, SOUTH WALES	*a* Llangammarch Wells	63	10th	36	14th	58·7	45·1	51·7	+ 3·3	68	0	7	3·18	—	18·4	—	24	—	Llangammarch Wells.
	a Pembroke	59	10th, 11th	48	13th, 14th	58·0	51·7	54·8	+ 2·2	90	0	7	2·49	+ 1·66	17·5	- 8·3	23	-11	Pembroke.
	a Cardiff	61	11th, 12th	45	14th	59·6	50·0	54·7	+ 4·5	89	0	7	2·70	+ 1·69	*18·8*	—	*25*	—	*Cardiff.*
															18·0	- *8·6*	*24*	-*11*	*Tenby.*
8. b, ENGLAND, S.W.	*a* Clifton	64	16th	47	14th	60·3	51·5	55·8	+ 5·2	97	0	7	2·92	+ 2·12	*21·0*	—	*28*	—	*Clifton.*
	a Shaftesbury M	60	11th	42	10th	57·8	48·9	53·2	+ 3·1	78	0	6	1·88	+ 1·12	*	*	*	*	
	a Arlington	61	10th	43	14th	58·7	50·0	54·2	+ 4·4	85	0	7	4·85	+ 3·45	19·9	- 7·5	26	-10	Newquay.
	a Cullompton M	65	16th	37	14th	61·4	50·1	55·6	+ 5·0	95	0	6	2·13	+ 1·34	15·1	- 8·5	20	-11	Cullompton.
	a Portland Bill	61	11th, 13th	53	14th	60·1	55·9	57·9	+ 4·3	111	0	6	1·31	—	*26·2*	—	*34*	—	*Weymouth.*
	p Plymouth	61	10th, 14th	46	10th	60·0	52·8	56·3	+ 3·7	100	0	7	2·19	+ 1·39	18·2	- 8·0	24	-10	Plymouth.
	p Falmouth	62	10th	47	13th, 14th	59·5	51·8	55·5	+ 2·6	95	0	7	2·54	+ 1·52	21·3	- 6·3	28	- 8	Falmouth.
															23·1	- *4·4*	*30*	- *6*	*Torquay.*
9. IRELAND, N.	*a* Malin Head	60	10th	43	14th	55·1	45·9	50·4	+ 0·2	59	0	7	1·49	+ 0·77	*	*	*	*	
	a Blacksod Point	60	10th, 11th	43	13th	56·6	48·3	52·3	+ 1·1	72	0	7	2·45	+ 1·33	*	*	*	*	
	p Markree Castle	62	10th	33	13th	57·8	42·9	50·1	+ 1·5	57	0	7	1·82	+ 0·91	19·8	- 1·3	26	- 2	Markree Castle.
	a Birr Castle	62	10th	42	13th	57·4	46·7	51·9	+ 3·3	69	0	6	0·89	+ 0·26	*13·1*	-*10·8*	*17*	-*14*	*Birr Castle.*
9. IRELAND, N. b, East.	*p* Armagh	61	10th	42	13th, 15th	56·8	45·0	50·7	+ 1·9	61	0	5	0·98	+ 0·38	22·0	+ 0·2	29	*0*	Armagh.
	a Donaghadee	58	10th, 11th	43	15th	56·3	45·9	51·0	+ 0·8	63	0	6	0·97	+ 0·35	*	*	*	*	
10. IRELAND, S. a, East.	*p* Dublin, City	64	10th	46	13th, 14th	59·2	49·2	54·1	+ 3·2	85	0	6	0·62	+ 0·05	18·7	- 7·3	25	-10	Phœnix Park.
	a Kilkenny	62	10th	39	14th	57·1	46·4	51·6	+ 1·8	67	0	6	2·10	+ 1·45	*	*	*	*	
	a Waterford	60	10th, 11th	42	14th, 16th	57·3	47·6	52·3	+ 1·8	72	0	7	2·16	+ 1·34	*	*	*	*	
	a Birr Castle	62	10th	42	13th	57·4	46·7	51·9	+ 3·3	69	0	6	0·89	+ 0·26	13·1	-10·8	17	-14	Birr Castle.
10. IRELAND, S.	*a* Foynes	61	10th	41	13th	57·3	47·6	52·3	+ 1·5	72	0	7	1·57	+ 0·75	*	*	*	*	
b, West.	*a* Cahir M	63	10th	41	11th, 13th	57·9	45·1	51·3	+ 0·6	65	0	7	1·93	—	*	*	*	*	
	a Killarney	63	10th	40	13th	59·6	48·9	54·1	+ 3·3	85	0	7	1·51	+ 0·34	*	*	*	*	
	a Valencia	61	10th	45	13th	57·9	50·7	54·2	+ 1·5	85	0	7	1·87	+ 0·72	16·8	- 7·9	22	-10	Valencia.
	a Roche's Point	60	10th, 15th	47	13th, 14th	58·3	50·9	54·5	+ 2·4	88	0	7	1·24	+ 0·39		—		—	Ballinacurra.
11. ENGLISH CHANNEL	*a* Scilly, St. Mary's	61	15th, 16th	54	11, 12, 14th	60·1	54·7	57·3	+ 2·6	107	0	7	1·56	+ 0·80	19·0	-10·2	25	-13	Scilly.
	a Jersey, St. Aubins	65	11th	43	10th	62·4	53·9	58·0	+ 2·5	112	0	6	0·92	- 0·01	20·1	-11·5	26	-15	St. Heliers.
	a Guernsey	64	12th	50	14th	61·5	54·0	57·6	+ 2·6	109	0	7	1·67	+ 0·73	21·3	- 7·9	28	-10	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 18·5 hrs.* (*-11·1 hrs.*), *24 %* (*- 14 %*); *Bournemouth, 23·3 hrs., 31 %*; *Bognor, 19·1 hrs., 25 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	49·1	—
	— —				
	— —				
1.	Aberdeen	—	—	—	50·8
	Crathes	2	30	50·8	51·9
	Balmoral	1	30	—	—
	West Linton	0	32	—	—
	Marchmont	0	35	49·7	—
2.	Cockle Park	0	36	48·8	50·5
	Durham	0	34	—	—
	York	—	—	52·8	53·9
	Hull	0	35	52·0	53·7
	Lincoln	—	—	52·9	53·9
	Rauceby	0	34	53·9	54·5
3.	Norwich	0	32	—	—
	Yarmouth	—	—	55·6	56·0
	Lowestoft	0	38	55·7	56·0
	Cambridge	2	23	54·8	56·1
	Clacton-on-Sea	0	38	56·1	57·1
	Southend	0	37	57·0	—
	Tottenham	0	40	—	56·9
4.	Harrogate	0	36	51·0	51·5
	Huddersfield	0	34	51·9	52·4
	Buxton	0	34	51·8	52·2
	Sheffield	1	29	52·3	53·0
	Nottingham	0	35	52·9	54·5
	Birmingham	0	32	51·7	52·0
	Oxford	0	—	—	—
	Hereford	0	32	—	—
	Cirencester	1	25	—	—
5.	Margate	0	42	54·7	55·3
	Greenwich	1	29	—	—
	Westminster	0	35	—	—
	Kew	1	29	55·3	55·8
	Canterbury	0	37	54·3	55·8
	Tunbridge Wells	0	34	55·0	—
	Wisley	0	34	?	?
	Worthing	0	36	56·6	57·2
	Portsmouth	0	33	56·8	57·7
6.	Glasgow	0	35	—	—
	Rothesay	—	—	—	51·7
	Colmonell	0	41	—	—
	Dumfries	0	40	52·0	53·6
	Douglas	0	40	—	—
7.	Aspatria	0	40	—	—
	Newton Rigg	0	37	51·8	52·4
	Burnley	0	38	51·2	51·8
	Southport	0	40	53·2	54·8
	Manchester City	6	34	53·3	54·8
	Bettws-y-Coed	0	37	52·6	53·0
8.	Llangammarch Wells	1	30	52·9	53·5
	Cardiff	0	36	54·5	55·2
	Clifton	0	48	—	—
	Bath	—	—	56·1	57·4
	Plymouth	0	34	56·3	—
9.	Armagh	0	40	52·9	54·3
	Markree	1	28	53·1	55·1
10.	Dublin, Trin. Coll.	0	37	53·5	54·7
11.	Guernsey, Brooklyn	0	44	57·2	58·9

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	50	50	50·0
	Kirkwall	51	48	49·6
	Wick	52	51	51·5
SCOTLAND, E.	Cromarty	52	51	51·6
	Pennan Bay	52	49	50·6
	Aberdeen, Cove Bay	53	50	51·8
ENGLAND, N.E.	Burnmouth, Berwick	52	50	50·9
	Scarborough	56	50	53·8
ENGLAND, E.	Shipwash Lightship	59	55	57·9
	Margate‡	58	57	57·5
ENGLAND, S.E.	Eastbourne‡	59	58	58·7
SCOTLAND, W.	Lamlash	53	52	52·8
	Ballantrae	54	53	53·7
ENGLAND, N.W.	Port Erin	55	54	54·6
ENGLAND, S.W.	Newquay	58	58	58·0
	Plymouth‡	58	57	57·2
	Salcombe	59	57	57·8
IRELAND, N.W.	Sheephaven	56	52	53·9
	Teelin	56	54	54·9
IRELAND, S.W.	Cleggan	56	52	54·4
	Seafield	57	54	55·5
IRELAND, E.				

‡ Only one observation each day.

Additional Observations in the Upper Air.

REGISTERING BALLOON ASCENTS.

1 *

Gloucester, June 24th, 1909, 3.16 p.m.

Height in kilometres.	Pressure. Mm.	Pressure. Mgd.	Temperature. C°	Temperature. A°
Ground	750	1·00	13·9	286·9
0·5	—	—	—	—
1·0	—	—	—	—
1·5	—	—	—	—
2·0	585	·78	— 3	**270**
2·5	548	·73	— 7·5	**265·5**
3·0	514	·69	—11·	**262**
3·5	481	·64	—14	**259**
4·0	450	·60	—17	**256**
4·5	422	·56	—20	**253**
5·0	395	·53	—23	**250**
5·5	368	·49	—26	**247**
6·0	343	·46	—31	**242**
6·5	320	·43	—34	**239**
7·0	298	·40	—38	**235**
7·5	278	·37	—41	**232**
8·0	258	·34	—46	**227**
8·5	238	·32	—49	**224**
9·0	221	·29	—51	**222**
9·5	205	·27	—53	**220**
10·0	189	·25	—50·5	**222·5**
11·0	163	·22	—48	**225**
12·0	140	·19	—46	**227**
13·0	120	·16	—46	**227**
14·0	103	·14	—46	**227**
15·0	88	·12	—46·5	**226·5**
16·0	76	·10	—47·5	**225·5**
17·0	65	·09	—48	**225**
18·0	56	·08	—49·5	**223·5**
19·0	48	·06	—49	**224**

2

Pyrton Hill, Oxon. September 2nd, 1909, 6.8 p.m.

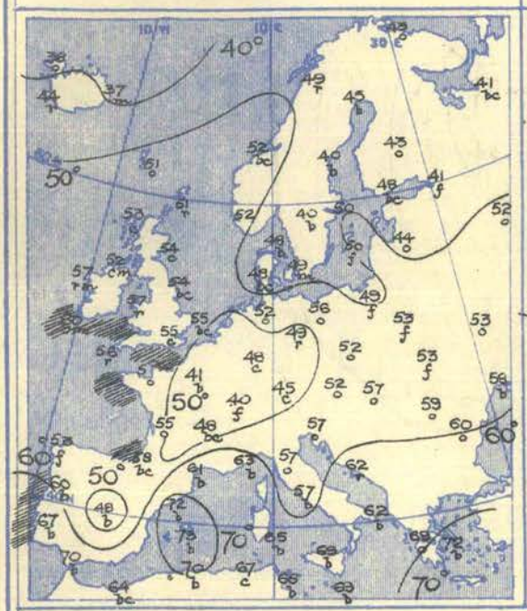
Height. in Kilometres.	Pressure. Mm.	Pressure. Mgd.	Temperature. C°	Temperature. A°	Temperature. or C°	Temperature. A°	Wind Direction and Velocity.
0· 15	751	1·00	11·0	284	or 14·5	287·5	220°, 2
0· 5	718	·96	6·5	279·5	or 11·5	284·5	230°, 2
1· 0	676	·90	3·5	276·5	or 7·5	280·5	250°, 2
1· 5	636	·85	0	**273**	or 3	276	270°, 2
2· 0	598	·80	0	**273**	or 2	275	310°, 2
2· 5	563	·75	−1	**272**	or 1·5	274·5	350°, 2
3· 0	529	·71	−3·5	**269·5**	or −0·5	**272·5**	360°, 3
3· 5	497	·66	−5·	**268**	or −1·0	**272**	10°, 5
4· 0	468	·62	−6·5	**266·5**	or −2·0	**271**	30°, 15
4· 5	441	·59	−7·5	**265·5**	or −5	**268**	30°, 15
5· 0	414	·55	−10·5	**262·5**	or −7	**266**	15°, 13
5· 5	388	·52	−13·5	**259·5**	or −10	**263**	350°, 13
6· 0	363	·48	−16	**257**	or −12	**261**	360°, 15
6· 5	340	·45	−17·5	**255·5**	or −14·5	**259·5**	5°, 15
7· 0	318	·42	−18·5	**254·5**	or −15·5	**257·5**	360°, 16
7· 5	297	·40	−21	**252**	or −18	**255**	350°, 17
8· 0	277	·37	−26	**247**	or −23	**250**	350°, 19
8· 5	259	·35	−28	**246**	or −25	**248**	350°, 21
9· 0	242	·32	−31	**242**	or −28	**245**	350°, 24
9· 5	226	·30	−33·5	**239·5**	or −30·5	**242·5**	—
10· 0	212	·28	−38	**235**	or −35	**238**	
11· 0	183	·24	−43	**230**	or −40	**233**	
12· 0	158	·21	−47	**226**	or −45	**228**	
13· 0	136	·18	−52	**221**	or −51	**222**	
14· 0	—	—					
15· 0							
16· 0							
17· 0							
18· 0							
19· 0							

No. **1.**—Balloon fell at Broomgrove, distant 69 km., direction N. by E. (11°.) Mean temperature Gradient (Ground to 8 km.) 0·75° per 100 metres. Wind at surface N.N.W., 3 (Beaufort.) Sky overcast, raining heavily. The instrument was returned badly damaged and the lower part of the trace is lost. The pressures are doubtful to the extent of about 10 m.m., 0·013 mgd. No. **2.**—Balloon fell at Troxhill, near Petersfield, distant 68 km., to South. Ascensional velocity, 3·2 mps. Mean Temperature Gradient (Ground to 13 km.) 0·5°, C° (per 100 metres). The trace is duplicated as usual, but there is an unusually large difference between the marks. At 13·2 km., pressure 0·176 mgd., Temperature 220° A.

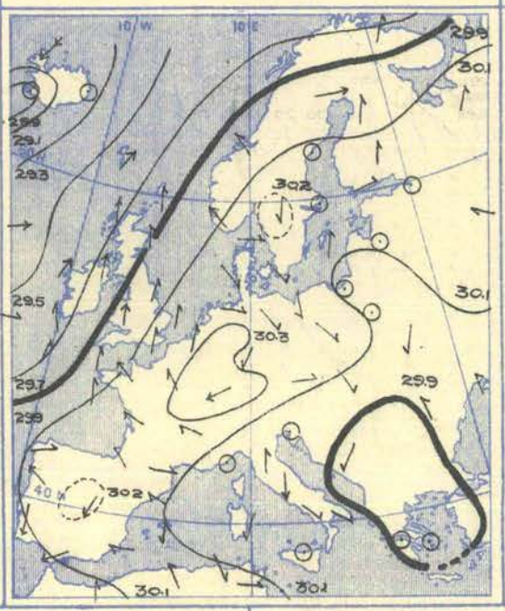
* Communicated by the Royal Meteorological Society.

Sunday, 10th October, 1909.

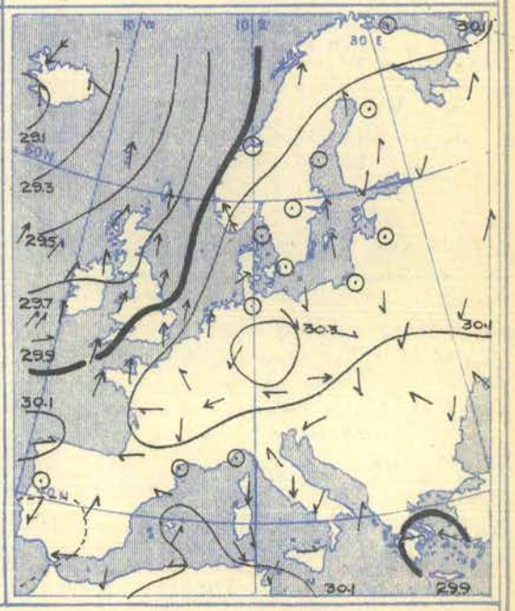
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning rainy in some parts of these Islands, and also at Berlin, Bodö, and on some shores of the Adriatic. Fair to fine and bright over our area generally. Rain experienced later in the United Kingdom, Austria-Hungary, and Sicily; about 0·5 in. at some of our own stations, and 0·7 in. at Palermo.

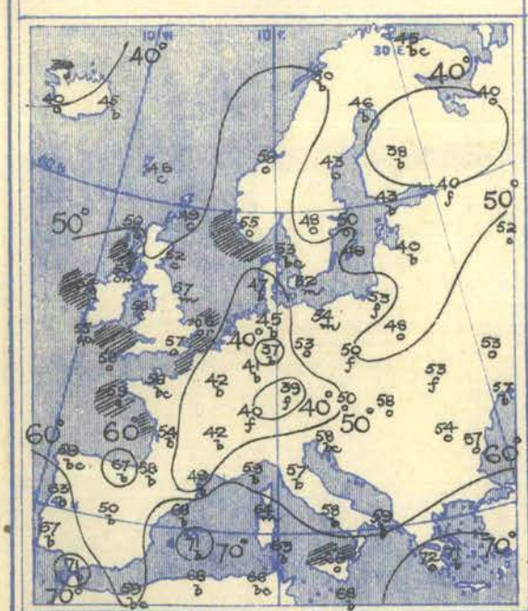
Temperature risen over these Islands, fallen over the western countries of the Continent. Morning readings ranging from about 70° at some stations in the extreme south to about 55° over a large portion of this country, and to about 40° in the east of France and in the far north of our area. Maxima during day not far from 60° over the United Kingdom, most of France, and central Europe, but above 70° in the south of France and over most other parts of southern Europe, and as high as 86° at San Fernando.

Wind in morning light to fresh from the Southward over these Islands, strong to a gale from South-East on the south-west coast of Norway, and blowing a whole gale from North-East on the north-west coast of Iceland. Light and rather variable over the greater portion of the Continent, and from some Northerly point over the Mediterranean. No change of a general character later, but a high wind from East setting in at San Fernando.

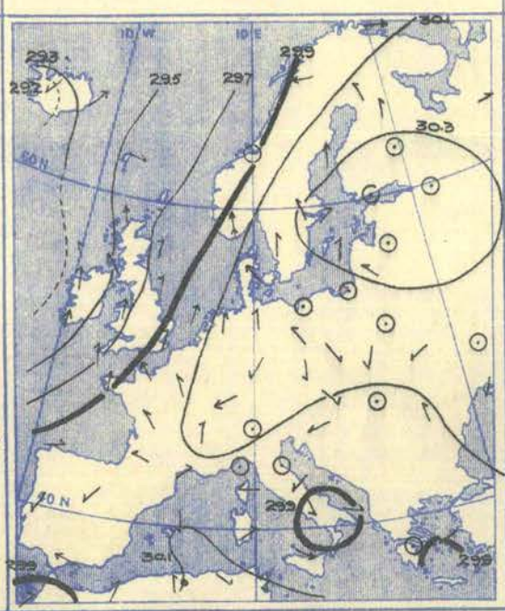
Barometer in morning relatively high in a long irregularly shaped band extending from Spain to Russia, and above 30·3 ins. in the east of France and west of Germany. Below 29·9 ins. in the south-east of Europe, and below 28·9 ins. over the south-west of Iceland. No important change occurring in the general distribution during day; some ill-defined secondaries travelling northwards over our western districts, but pressure increasing decidedly in Iceland.

Monday, 11th October, 1909.

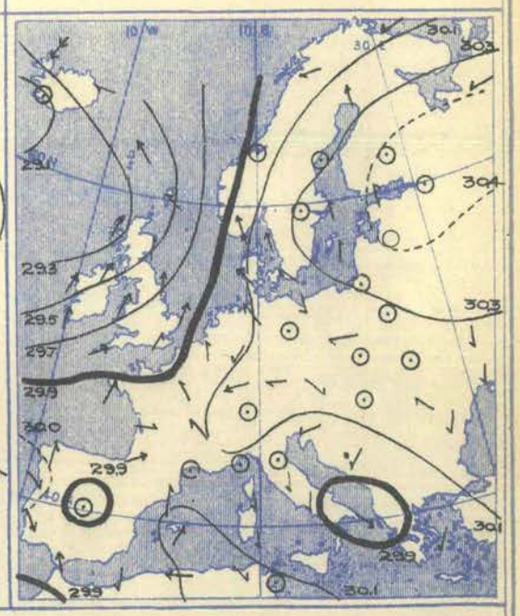
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning variable over these Islands, showery in a few localities; mostly fair to fine on the Continent, but overcast in some districts, and rainy at Cracow. Rain falling later in almost all parts of the United Kingdom, heavily in Ireland and the Hebrides, but conditions remaining dry over most of the Continent.

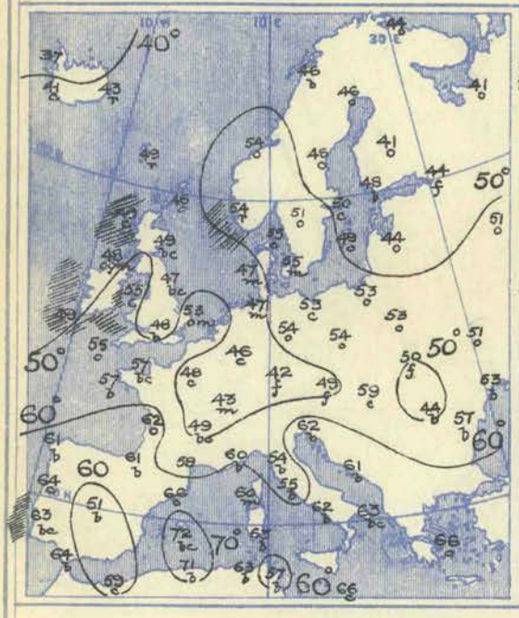
Temperature showing no general change. Morning readings ranging from about 40° at some stations in the extreme north, and in the west of Germany and east of France, to nearly 60° in England, above 60° over a large portion of the Mediterranean region, and to about 70° in places. Maxima during day 88° at Madrid, 86° at San Fernando, and above 75° at some other stations in the south; below 60° in many parts of central Europe and in the north-west of these Islands, but between 60° and 65° at most of our stations.

Wind in morning light to fresh or strong from the Southward over these Islands, and blowing a gale from that direction on the south-west coast of Norway; drawing into North-East in the west of Iceland. Light variable airs prevailing over the south of our area, and light anticyclonic airs over Russia. No important change during day over our area as a whole, but increasing in force from South-West on our north-west coasts, and to a gale from North-East in the north-west of Iceland.

Barometer in morning above 30·3 ins. over a considerable portion of Russia and the Baltic; below 29·9 ins. in a shallow depression over Italy, and below 29·2 ins. in a large low pressure system on the Atlantic. Pressure increasing in Ireland during day, but falling in Great Britain and over the North Sea region. Little modification occurring in the general distribution of pressure.

Tuesday, 12th October, 1909.

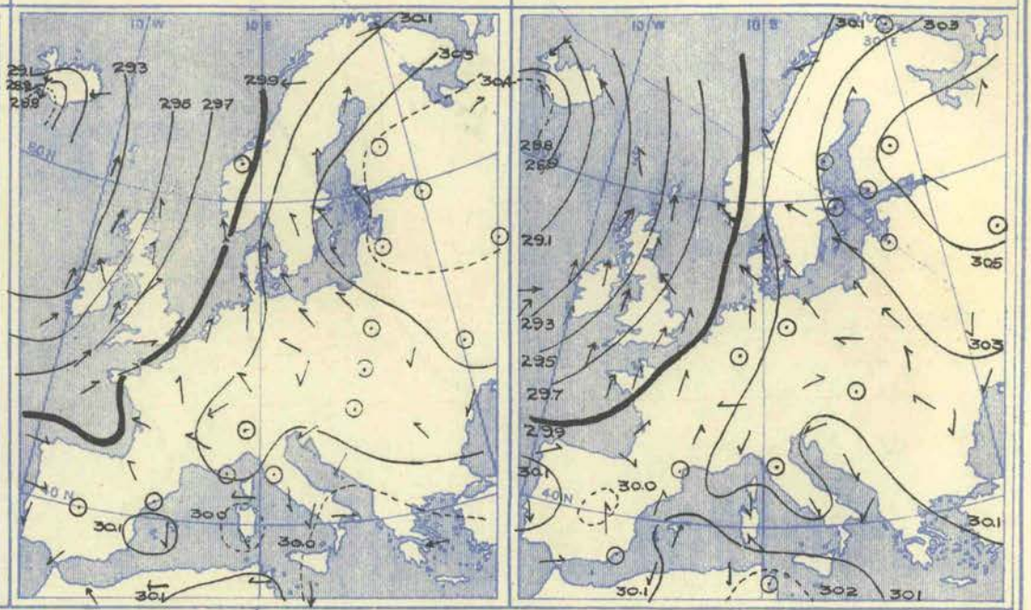
Temperature and Weather. 7 a.m.



Weather in morning fair to cloudy over the greater part of our area; overcast in many Russian localities, rainy in the Icelandic region and at Skudesnaes, and showery in the Hebrides. More than an inch of rain falling later in Wales; as much as 1·4 in. at Holyhead, with thunder and lightning. Smaller quantities experienced in most other parts of these Islands, but scarcely any on the Continent.

Temperature fallen over these Islands, risen over a considerable portion of the Continent. Morning readings 44° at Bath, and below 50° over the major portion of these Islands, as well as at many stations in central and northern Europe; above 60° at most places on the shores of the Mediterranean and Adriatic, and as high as 71° at Algiers. Maxima during day about 60° in various parts of Great Britain and Germany, above 70° over a large portion of southern Europe, and nearly 80° in a few localities.

Barometer and Wind. 7 a.m. and 6 p.m.

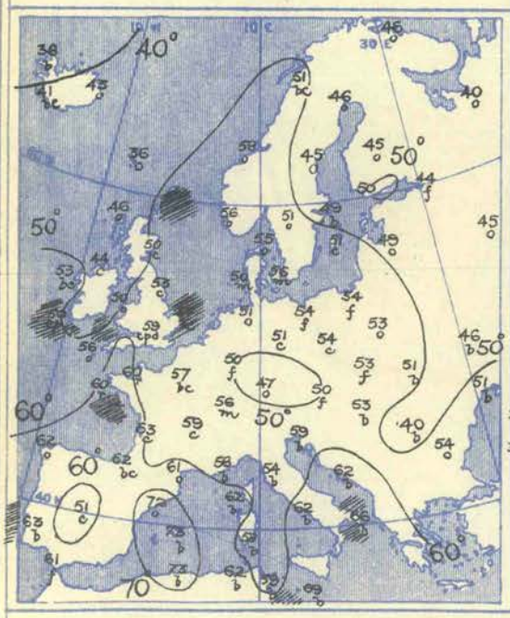


Wind in morning showing an extensive anticyclonic circulation over the east and north of the Continent, and light variable breezes in the south. A Southerly current prevailing over this country, light generally, but fresh to high on the west coasts. A strong gale from the North-Eastward blowing in the west of Iceland, and a South-Easterly gale on the south-west coast of Norway. No change of importance during day, but wind increasing quickly from the Southward at night over England.

Barometer in morning above 30·4 ins. in a large high pressure system over Russia; low over the Atlantic off the west of these Islands, and as low as 28·8 ins. over the south-west of Iceland. Pressure increasing still further over Russia during day, but decreasing somewhat over these Islands and Iceland. A small, but deep, secondary disturbance appearing over the Irish Sea during night, and gradient growing rather steep over England.

Wednesday, 13th October, 1909.

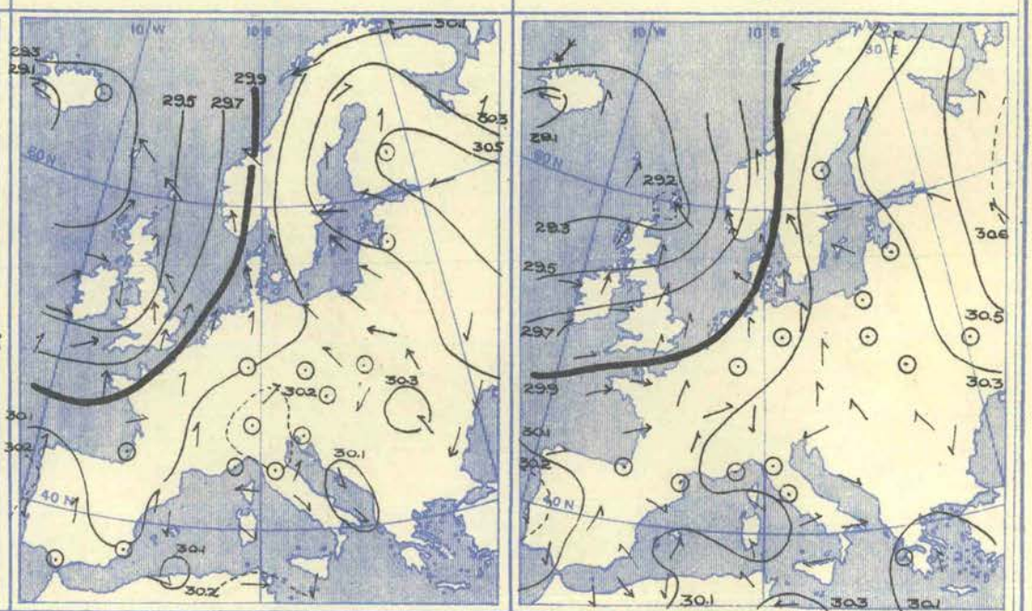
Temperature and Weather. 7 a.m.



Weather in morning fair or fine over the greater part of the Continent, but rainy at some of our own stations and in Brittany, and very unsettled over these Islands. More than an inch of rain later in the south-east of Scotland, and considerable falls over these Islands generally. Thunderstorms and rain in many parts of France; more than 2·0 ins. at Cette.

Temperature risen over England and the nearer parts of the Continent. Readings in morning about 60° on our southern coasts and in France, and above 65° at a few stations on the shores of the Mediterranean; below 50° in the north and north-west of these Islands and over most of northern Europe. Rising to about 60° during day in many parts of England, to between 65° and 70° over much of southern Europe, and to 80° or above in a few places; highest reading, 86° at Algiers.

Barometer and Wind. 7 a.m. and 6 p.m.



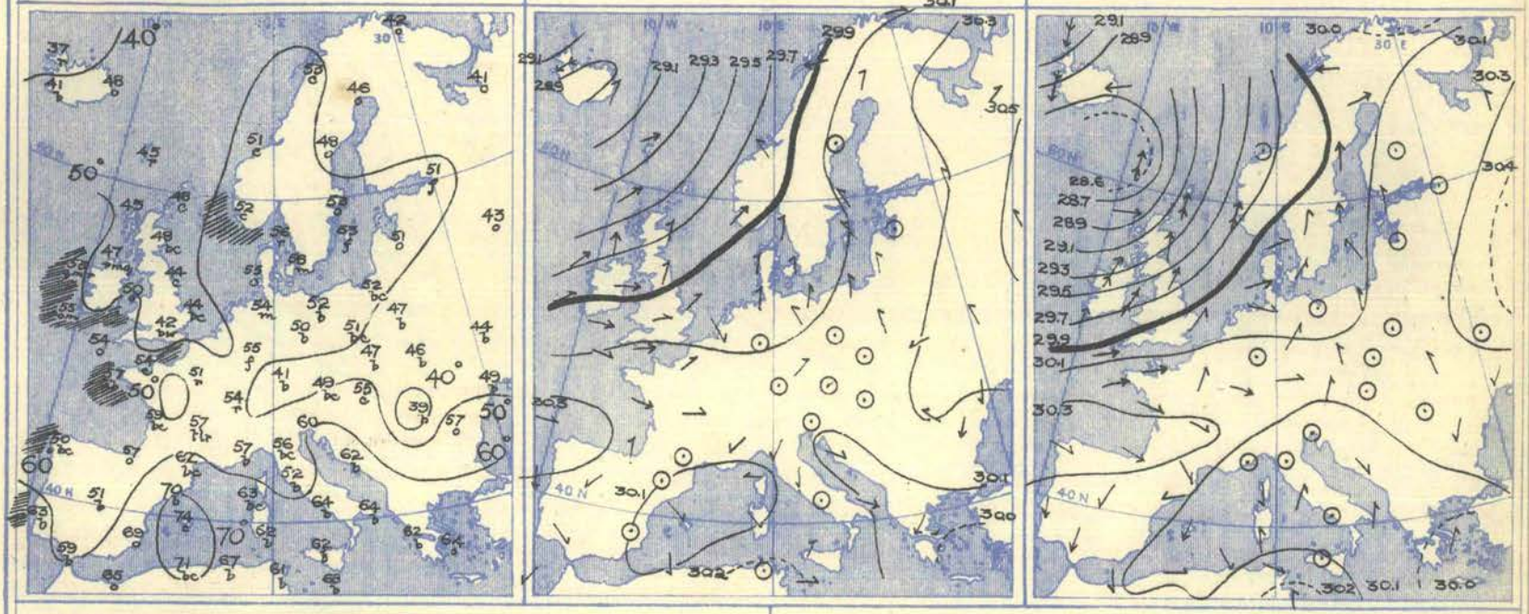
Wind in morning fresh to strong from the Southward over the greater part of England, and blowing a gale at Portland Bill; light from the Southward in Scotland, and strong to a gale from North-East in the north-west of Iceland. Wind light and rather variable on the Continent, but mainly from South-East or South. Decreasing in force by afternoon over the south of England, but increasing on the south-west coast of Norway. Gale continuing in Iceland.

Barometer in morning above 30·5 ins. in an anticyclone over Russia; below 29·1 ins. in a depression to the southward of Iceland, and about 29·3 ins. in a secondary centred off the north coast of Wales. Latter moving quickly during day to the northward of Scotland, and pressure recovering briskly in Ireland and the west of England. Little change taking place in the general distribution.

Thursday, 14th October, 1909.

Temperature and Weather — 7 a.m.

Barometer and Wind — 7 a.m. | 6 p.m.



Weather in morning rainy in many parts of France, Belgium, and southern Scandinavia, as well as on our extreme north-west coasts; fair to fine and bright over most other parts of our area. Rain falling later over the greater part of the United Kingdom and the most western and north-western countries of the Continent; amounts more than 0·5 in. in some Scottish and Irish localities, and 1·0 in. at Skudesnaes.

Temperature fallen over England and France. Morning readings ranging from 74° at Palma and above 65° at some other southern stations to about 50° in central Europe, below 45° in various parts of Great Britain, and also over Russia; as low as 37° at Kharkoff. Maxima during day below 60° in most parts of this country and in a few places in central Europe, but above 70° in the south of our area, and above 80° at some stations. Minima of the night rather high over most parts of England.

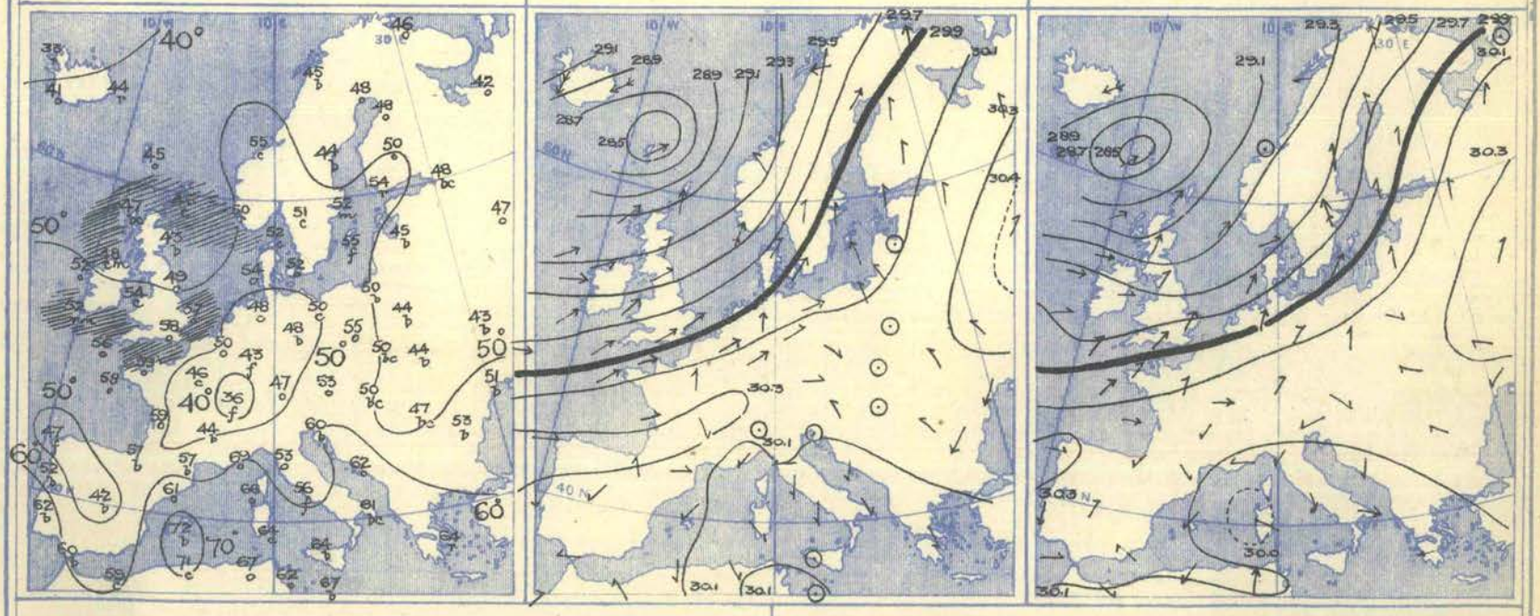
Wind in morning fresh to strong or high from the South-Westward on our extreme north-west coasts, and light or moderate from that quarter over our Islands generally. Blowing a gale from the North-Eastward in western Iceland. Light winds, mainly anticyclonic, prevailing over the major portion of the Continent. Increasing to a gale from South or South-West during day or evening in nearly all parts of these Islands and their neighbourhood; reaching the force of a whole gale at Malin Head.

Barometer in morning above 30·4 ins. over most of Russia, and above 30·3 ins. over the north and north-west of the Spanish Peninsula. Below 30·1 ins. in a shallow depression over the western part of the Mediterranean, and below 28·9 ins. in a depression over Iceland. Latter system moving eastwards later and increasing in intensity, and gradient growing very steep over the northern half of these Islands and the adjacent portion of the ocean. Little change taking place in the east and south of our area.

Friday, 15th October, 1909.

Temperature and Weather — 7 a.m.

Barometer and Wind — 7 a.m. | 6 p.m.



Weather in morning rough and very unsettled over the whole of north-western Europe, with squalls and showers in many localities. Fair to fine and bright in the south and east of our area. Rain experienced later in these Islands and over the greater portion of northern Europe, as well as at Tunis; more than an inch in the latter locality, and more than half an inch at Spurn Head and at some stations in Scandinavia.

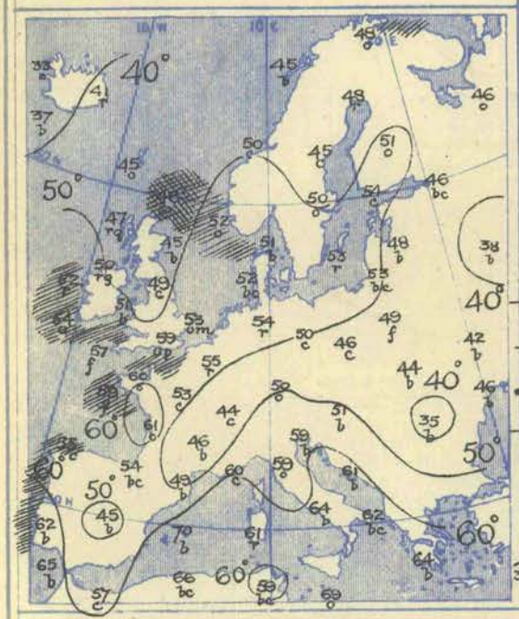
Temperature risen decidedly over England, fallen over the western part of the Continent. Readings in morning ranging from about 70° at a few stations in the Mediterranean region to about 60° on our south coast, to below 50° in Scotland and over the greater part of the Continent, and to 37° at Kharkoff. Maxima during day 88° at Tunis, between 70° and 80° at many places in the far south of our area, about 60° in the north of France, central Europe, and a large portion of these Islands, but below 50° in the extreme north of the Continent.

Wind in morning showing a vast cyclonic circulation over the west and north-west of our area; the Northerly current blowing a gale in Iceland, and that from South or South-West strong to a gale over these Islands and on the south-west coast of Norway. Light variable breezes prevalent over the south of our area, and light anticyclonic airs in Russia. Not much change in direction later in day, but some increase in force taking place on the English Channel, and also over the Baltic.

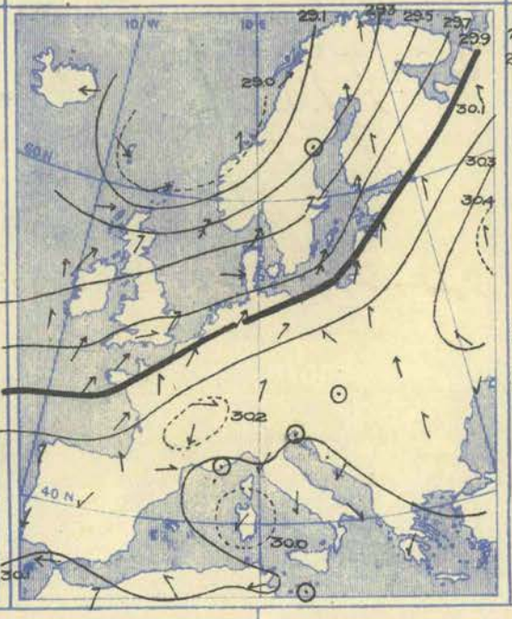
Barometer in morning ranging from above 30·4 ins. over most of Russia, and above 30·3 ins. in a narrow band of high pressure extending from the north of Spain to South Germany, to below 28·5 ins. in a large and very deep depression having its minimum between the Faröe and Iceland. No change in the general distribution later. Cyclonic centre remaining almost stationary, but barometer rising in Iceland, and also on the west and south coasts of Ireland.

Saturday, 16th October, 1909.

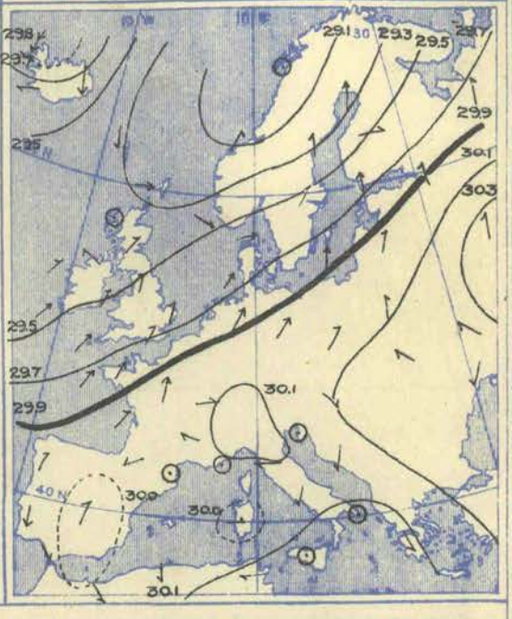
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning mostly cloudy and unsettled over the north-western half of our area, with rain at several stations. Generally fair to bright over Russia, southern Europe, and the Mediterranean, but rain falling at Cagliari. Rain later throughout these Islands and the nearer regions of the Continent, as well as on some shores of the Mediterranean and at various stations in Scandinavia. Lightning at night in some parts of England and a thunderstorm at Hull.

Temperature changed rather irregularly; fallen in the north of England. Morning readings ranging from above 60° over nearly the whole of the Mediterranean area and 59° in the south of England to 50° or below over a large portion of central Europe and the north of these Islands, and to below 40° in central Russia. Maxima during day above 70° very generally in the south of our area, and nearly 80° in places. About 60° over the greater portion of England and the central countries, and as high as 59° at St. Petersburg. Night very mild over southern England; night minimum 60° in London.

Wind in morning Southerly along the west coast of Ireland, South-Westerly over these Islands generally, and Southerly over the Scandinavian region; fresh to high in the Channel, and strong to a gale over the south of Scandinavia and the Baltic. A high wind from North-West prevailing at Thorshavn. Light winds, mainly from some Northerly point, over Italy and the Adriatic. Not much change as a whole later in day, but decrease in force at many stations.

Barometer in morning above 30·4 ins. over central Russia and relatively high in a band extending thence across central Europe and the Spanish Peninsula. Below 30·0 ins. in a shallow depression over Sardinia and below 28·9 ins. in a large system having its centre some distance to the northward of Shetland. Latter system travelling north-eastwards during day and apparently becoming less deep. A fresh fall of the barometer setting in over the west and south-west of these Islands, but a very brisk rise taking place in the far north.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Remarks.
											Metres.	
1	1909. Oct. 7th, 10.20 a.m. to 3.30 p.m.	Aldershot.	Temperature Humidity .. Wind	286° 90%		282° 90% —°, 17					280° 90% —°, 20 } 800	Kept at 800 m. Temp. uniform. Humidity varying from 100 to 70%. Wind increasing. Kite broke away at 3.30 p.m.
2	Oct. 10th, 9.45 a.m. to 1.10 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	287° 95% 190°, 6	286° 95% 190°, 10	200°, 12	280° 100% 210°, 13	280 ?° 95 ?%			280 ?° 95 ?% 210°, ? } 1,950?	Clock partially stopped. Very small change above 100 m. Lowest clouds at 850 m.
3	Oct. 11th, 10.32 a.m to 11.10 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	287·5° 95% 150°, 7	287° 95% 150°, 13	285° 100% 150°, 16	285·5° 50% 190°, 18				} 1,000	Ci. and Cl.-Cu.
4	Oct. 14th, 10.5 a.m. to 11.15 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	286° 70% 225°, 7	225°, 14	250°, 14	100% 250°, 15				277·5° 100% 250°, 16 } 1,430	Clouds at 600 m. Clock stopped.
5	Oct. 14th, 1.15 p.m. to ?	Brighton, 115 m.	Temperature Humidity .. Wind	287° 90% 255°, 9		284° 100% 260°, 11	281° 90% 260°, 12	276° 90% 265°, 12			273° 85% 265°, 13 } 1,750	Fr.-Cu. Clock partially stopped.
6	Oct. 16th, 9.55 a.m. to 11.0 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	288·5° 90% 200°, 5	287·5° 90% 200°, 12	287° 100% 210°, 14	286·5° 95% 220°, 16				286° 90% 225°, 16 } 1,150	Entered scud at 400 m.

Kite ascents were made at the Howard Estate Observatory, Glossop, on October 11th, 12th, 13th, 14th, 15th, 16th.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6
No. of Kites or Balloons		2	1	1	2	1
Area of Surface (sq. metres) ..		13	7	7	13	7
Length of Wire (metres)		2,300	1,100	2,100	250	1,800

63, Victoria Street, London, S.W. *October 20th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 42. FORTY-SECOND WEEK, SUNDAY OCTOBER 17TH TO SATURDAY OCTOBER 23RD, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather continued very mild for the time of year, with frequent falls of rain, which were occasionally very heavy in the north and west. Thunderstorms, or thunder only, occurred in various parts of Great Britain—mostly on Thursday. Aurora was observed on Monday, Tuesday, or Wednesday night at several stations in England and Scotland, and also at Cahir.

Temperature was considerably above the average, the excess being as large as 6° in England S.E. and the Midland Counties, and 6°·7 in England E. The highest of the maxima were registered on rather irregular dates, and ranged from 67° in the English Channel and 66° in England N.W. and S.W. to 58° in Scotland N. The lowest of the minima, which occurred generally towards the end of the period, varied from 34° in Scotland W. and 37° in Scotland N. and the Midland Counties to 42° in England N.W., and to 51° in the English Channel. During the greater part of the week the minima were very high for the time of year. The lowest grass readings reported were 27° at Crathes, Cambridge, and Cirencester, 29° at Hereford, and 32° at West Linton, Norwich, Llangammarch Wells, and Markree Castle.

Mean Temperature of the Sea.—On most parts of the coast the water was colder than during the corresponding week of last year. The actual figures for the week ranged from about 58° at the Shipwash Lightship, Eastbourne, Newquay, and Plymouth to 50·5 at Burnmouth, and to 50° at Lerwick.

Rainfall exceeded the normal over the Kingdom generally, but was less in England E. and S.E., and also in the English Channel. In Ireland, Scotland, and the north-west of England the excess was very large. Many falls of more than an inch were recorded; as a rule they occurred on Saturday, and mainly in the north and north-west, but some northern and north-western stations experienced similar falls earlier in the week. Among the largest were 1·29 inch at Fort William on Wednesday, 1·32 inch at Aspatria on Tuesday, 1·38 inch at Lancaster and 1·47 inch at Bettws-y-Coed on Saturday. At Dumfries 1·60 inch fell on Sunday, and 1·20 inch on Tuesday.

Bright Sunshine just equalled the average in Ireland S. and slightly exceeded it in the English Channel; in all other districts it was deficient. The percentage of the possible duration ranged from 40 in the English Channel, 31 in Ireland S., and 30 in England S.W. to 19 in the Midland Counties, and to 13 in Scotland W.

Barometer and Wind.—Barometric pressure underwent frequent and considerable fluctuations, caused by cyclonic systems that came from the Atlantic and travelled either directly over these Islands or on a course lying to the northward. During the earlier days of the week the Southerly and South-Westerly winds which generally prevailed were of little force, but they subsequently increased very materially, blowing a strong breeze or high wind on many parts of the western and southern coasts on Friday, and reaching the force of a fresh to whole gale on the western and south-western coasts on Saturday. At Scilly the wind at 7.30 p.m. on Saturday blew in squalls with a velocity of 90 miles per hour from the Westward.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 324.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual
	Rainfall ...	Heavy	Heavy	Moderate	Moderate	Moderate	Moderate	Very heavy	Very heavy	Moderate	Very heavy	Very heavy	Moderate
	Sunshine ...	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 7 weeks from Sept. 5th, 1909.	Warmth ...	2 * 2	2 * 2	2 * 2	3 * 1	3 * 1	3 * 2	3 * 2	3 * 2	3 * 2	4 * 2	4 * 2	3 * 1
	Rainfall ...	3 * 3	4 * 1	0 * 1	1 * 0	2 * 0	3 * 0	3 * 1	3 * 1	2 * 1	3 * 2	4 * 3	3 * 1
	Sunshine ...	1 * 2	1 * 3	0 * 3	0 * 4	0 * 3	0 * 2	1 * 5	1 * 1	0 * 2	1 * 2	1 * 2	1 * 4

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

Can any recipient of the Monthly Weather Report supply copies of the Reports for January and September, 1907, which are required to complete the file in the library of an important Foreign Institution?

8179 450 Wy. & S. Ltd. 10—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-SECOND WEEK—October 17th to October 23rd, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	58	37	53·4	43·8	48·5	+ 2·9	46	+ 11	0	− 9	7	+ 2	1·98	+0·88	15	− 3	21	− 4
Eastern																		
1. SCOTLAND, EAST	61	35	54·5	43·3	48·7	+ 3·3	47	+ 10	0	−11	6	+ 2	1·22	+0·56	18	− 1	26	− 2
2. ENGLAND, N.E.	64	40	58·7	47·4	52·9	+ 5·4	76	+ 33	0	− 5	6	+ 2	0·84	+0·10	20	− 2	27	− 2
3. ENGLAND, EAST	64	39	60·5	49·8	55·0	+ 6·7	91	+ 40	0	− 6	5	+ 1	0·51	−0·14	14	− 10	19	−13
4. MIDLAND COUNTIES	65	37	59·8	47·3	53·3	+ 6·1	79	+ 33	0	− 8	6	+ 2	0·81	+0·15	19	− 2	26	− 3
5. ENGLAND, S.E.	64	40	60·2	51·4	55·7	+ 6·0	96	+ 38	0	− 4	5	+ 2	0·65	−0·08	18	− 6	24	− 8
Western																		
6. SCOTLAND, WEST	60	34	55·5	44·9	50·1	+ 3·0	57	+ 14	0	− 7	6	+ 2	2·62	+1·60	10	− 9	13	−13
7. ENGLAND, N.W.	66	42	58·3	48·0	53·0	+ 4·7	77	+ 29	0	− 4	6	+ 3	2·08	+1·22	16	− 3	23	− 4
8. ENGLAND, S.W.	66	40	59·3	49·9	54·5	+ 4·8	88	+ 30	0	− 3	7	+ 3	1·20	+0·19	22	− 2	30	− 2
9. IRELAND, NORTH	60	39	56·3	45·8	50·9	+ 3·4	62	+ 17	0	− 5	6	+ 2	2·34	+1·53	17	− 3	24	− 5
10. IRELAND, SOUTH	64	39	58·7	47·4	52·9	+ 4·0	76	+ 22	0	− 4	7	+ 3	2·49	+1·61	23	0	31	0
11. ENGLISH CHANNEL	67	51	61·6	54·2	57·8	+ 4·6	111	+ 33	0	0	5	0	0·80	−0·12	30	+ 2	40	+ 3

THE SEASON (Autumn).—Aggregates, &c., for the Period of 7 Weeks, September 5th to October 23rd, 1909.

0. SCOTLAND, NORTH	68	32	*	*	*	*	388	− 8	0	−21	35	+ 1	8·53	+0·59	161	+ 13	28	+ 2
Eastern																		
1. SCOTLAND, EAST	70	26	*	*	*	*	391	− 34	4	−22	33	+ 5	5·93	+1·60	154	− 20	27	− 3
2. ENGLAND, N.E.	70	33	*	*	*	*	533	+ 33	0	−10	33	+ 8	3·76	+0·02	148	− 47	26	− 8
3. ENGLAND, EAST	74	36	*	*	*	*	632	+ 61	0	−13	32	+ 8	3·52	−0·16	166	− 50	29	− 9
4. MIDLAND COUNTIES	71	33	*	*	*	*	563	+ 42	0	−18	36	+12	5·07	+1·23	146	− 45	25	− 8
5. ENGLAND, S.E.	71	33	*	*	*	*	674	+ 46	0	− 8	35	+12	6·24	+1·99	179	− 41	31	− 7
Western																		
6. SCOTLAND, WEST	70	31	*	*	*	*	483	+ 16	0	−14	31	+ 3	9·32	+2·20	143	− 35	25	− 6
7. ENGLAND, N.W.	69	32	*	*	*	*	544	+ 15	0	− 6	31	+ 5	7·87	+2·40	162	− 19	28	− 3
8. ENGLAND, S.W.	72	30	*	*	*	*	631	+ 40	0	− 5	34	+ 7	7·75	+1·85	184	− 25	32	− 4
9. IRELAND, NORTH	68	30	*	*	*	*	518	+ 29	0	− 8	33	+ 2	7·49	+1·93	165	− 3	29	− 1
10. IRELAND, SOUTH	72	32	*	*	*	*	600	+ 51	0	− 7	37	+10	7·21	+2·02	191	− 7	33	− 1
11. ENGLISH CHANNEL	74	41	*	*	*	*	798	+ 62	0	0	33	+ 4	5·27	+0·23	225	− 33	39	− 6

THE YEAR.—Aggregates, &c., for the Period of 42 Weeks, January 3rd to October 23rd, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1816	−134	535	− 43	199	+ 5	34·09	−5·26	1042	+ 10	27	0
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	1986	−209	677	+ 31	170	+ 9	27·39	+3·49	1173	− 53	30	− 1
2. ENGLAND, N.E.	85	14	*	*	*	*	2456	+ 6	580	+ 95	155	+10	21·76	+2·56	1263	− 66	33	− 2
3. ENGLAND, EAST	85	12	*	*	*	*	2729	−102	554	+ 20	155	+15	18·80	+0·21	1465	+ 22	39	+ 1
4. MIDLAND COUNTIES	86	8	*	*	*	*	2658	− 99	642	+ 91	151	+12	22·07	+1·47	1315	+ 26	34	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	2855	−192	482	+ 93	148	+15	23·61	+3·25	1561	+ 98	41	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2264	−106	445	+ 6	165	− 3	38·32	+2·35	1270	+ 10	33	0
7. ENGLAND, N.W.	82	10	*	*	*	*	2468	−128	466	+ 74	160	+ 6	29·44	+2·76	1363	+ 85	36	+ 2
8. ENGLAND, S.W.	89	7	*	*	*	*	2743	−140	390	+ 84	158	+ 6	28·09	−0·46	1516	+ 90	40	+ 3
9. IRELAND, NORTH	78	14	*	*	*	*	2435	− 41	315	− 38	188	+ 5	29·24	−0·18	1129	− 30	29	− 1
10. IRELAND, SOUTH	81	15	*	*	*	*	2843	+ 8	265	− 1	176	+14	28·24	−2·13	1316	+ 10	35	0
11. ENGLISH CHANNEL	84	25	*	*	*	*	3358	+ 36	151	+ 42	144	−18	21·14	−2·58	1812	+ 78	48	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked 𝔐 is supplied by the Royal Meteorological Society, and that for Stations marked 𝔖 is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts		Names of Stations	Temperature. In Degrees Fahrenheit. Highest observed	Date.	Lowest observed	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations
			°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	a, Islands.	p *Balta Sound* S	*54*	*20th*	*41*	*19th*	*50·7*	*43·5*	*47·0*	—	*35*	*0*	*6*	*1·23*	—	*7·6*	—	*11*	—	*Balta Sound.*
		a Sumburgh Head ..	54	21st, 22nd	40	17, 18, 19th	52·4	42·0	47·1	+ 1·4	36	0	7	1·38	+ 0·42	12·3	- 6·1	18	- 9	Deerness.
		a Stornoway	56	17th, 22nd	44	22nd	53·4	46·9	50·1	+ 4·2	57	0	7	2·20	+ 0·92	21·1	+ 2·1	30	+ 3	Stornoway.
		a *Castlebay, Barra Isd.*	*56*	*17th, 19th*	*43*	*22nd*	*54·4*	*47·1*	*50·6*	+ *2·6*	*60*	*0*	*6*	*1·52*	—	*25·2*	—	*36*	—	*Castlebay.*
		a Wick	58	19th	40	19th	54·3	43·9	49·0	+ 2·7	49	0	7	0·62	- 0·11	*	*	*	*	*
	b, Mainland.	p Strathpeffer	58	20th	41	21st	54·2	44·2	49·1	+ 3·8	50	0	7	0·87	+ 0·21	17·7	- 2·3	25	- 3	Strathpeffer.
		p Glencarron .. S	57	19th, 20th	41	23rd	52·9	43·2	47·9	+ 3·3	41	0	7	2·76	+ 0·63	*	*	*	*	*
		p Fort Augustus S	58	20th	40	18th, 21st	52·9	42·7	47·7	+ 1·9	40	0	7	2·10	+ 1·14	7·7	- 6·2	11	- 9	Fort Augustus.
		p Fort William S	57	20th	37	18th	54·0	43·6	48·7	+ 1·6	47	0	7	3·94	+ 2·21	*	*	*	*	*
1. SCOTLAND E.		p Gordon Castle S	61	22nd	40	18, 19, 22, 23	56·4	41·9	48·9	+ 2·0	49	0	5	0·73	- 0·04	*22·8*	—	*32*	—	*Gordon Castle.*
		a Nairn	58	19th, 22nd	40	22nd	53·9	43·6	48·6	+ 2·4	46	0	7	0·81	+ 0·27	26·9	—	38	—	Nairn.
		a Aberdeen	59	20th	40	19th, 22nd	55·0	44·9	49·8	+ 2·9	55	0	6	0·70	+ 0·04	15·9	- 6·4	22	- 9	Aberdeen.
		a Balmoral .. S	60	22nd	35	18th	55·7	41·7	48·5	+ 5·7	47	1	4	0·66	- 0·19	18·1	—	26	—	Crathes S.
		p Crieff .. .. S	57	22nd	36	21st	53·2	41·6	47·2	+ 0·4	38	1	6	1·51	+ 0·64	14·7	—	21	—	Balruddery
		a Leith	60	19th, 22nd	43	18th	56·1	47·1	51·5	+ 3·3	67	0	7	1·30	+ 0·82	20·6	+ 2·3	29	+ 3	Edinburgh.
		a West Linton.. S	55	19, 20, 22nd	36	22nd	52·0	42·6	47·2	+ 2·0	36	0	7	2·00	—	*11·7*	—	*16*	—	*West Linton.*
		p Marchmont .. S	58	20th	38	21st	54·0	42·6	48·1	+ 2·5	43	0	7	2·05	+ 1·23	12·8	- 6·7	18	- 9	Marchmont.
2. ENGLAND, N.E.	a, North.	a Alnwick Castle ..	60	20th	45	18th	56·1	47·3	51·6	+ 4·4	67	0	6	1·48	+ 0·64	19·8	—	28	—	Cockle Park.
		a Shields	63	18th, 20th	42	22nd	58·6	46·1	52·2	+ 4·3	71	0	6	1·47	+ 0·77	*15·9*	- *0·1*	*22*	*0*	*Newcastle.*
		p Durham	62	18th	43	19th, 21st	57·2	46·5	51·7	+ 4·7	68	0	4	0·84	+ 0·10	19·5	- 0·5	27	- 1	Durham.
		p Rounton .. M	62	18th, 20th	40	21st	58·5	45·2	51·7	+ 4·9	68	0	6	0·93	+ 0·21	*	*	*	*	*
		p Scarborough.. M	64	18th	43	22nd	60·1	48·9	54·3	+ 5·7	86	0	4	0·58	- 0·17	19·5	—	27	—	Scarborough.
		p York	63	20th	43	22nd	60·0	48·7	54·2	+ 6·0	85	0	5	0·59	- 0·01	?	?	?	?	York.
	b, South.	a Spurn Head	64	18th	45	22nd	59·6	49·0	54·1	+ 4·2	85	0	6	0·40	- 0·15	*	*	*	*	*
		a Lincoln	64	20th	41	22nd	57·6	46·9	52·1	+ 3·9	71	0	7	0·73	+ 0·15	18·6	—	26	—	Skegness.
		a Fulbeck														21·1	—	29	—	Rauceby.
																12·9	—	*18*	—	*Lowestoft.*
		p Cromer															—		—	Cromer.
3. ENGLAND, E.	a, North.	p Hillington .. M	62	18th, 23rd	39	22nd	60·6	47·6	53·9	+ 5·5	83	0	6	0·87	+ 0·17	12·1	- 9·8	17	- 13	Hillington.
		a Yarmouth .. .	63	23rd	42	22nd, 23rd	60·7	48·6	54·5	+ 4·8	88	0	4	0·32	- 0·38	11·3	—	16	—	Yarmouth.
		a Norwich	62	23rd	41	22nd	59·7	50·0	54·7	+ 6·1	89	0	7	0·55	—	*	*	*	*	*
		p Geldeston	64	23rd	41	22nd	61·0	49·4	55·0	+ 5·6	91	0	6	0·29	- 0·38	11·8	-12·8	16	-18	Geldeston.
		p Cambridge	63	19th	40	22nd	60·9	49·0	54·8	+ 6·2	90	0	5	0·70	+ 0·17	16·1	- 7·8	22	-11	Cambridge.
	b, South.	a *Felixstowe*	*62*	*23rd*	*45*	*22nd*	*59·9*	*52·9*	*56·3*	+ *5·8*	*100*	*0*	*6*	*0·33*	—	*15·4*	—	*21*	—	*Felixstowe.*
		a Clacton-on-Sea ..	61	17th, 23rd	45	22nd	59·7	52·0	55·7	+ 5·4	96	0	4	0·26	—	13·2	—	18	—	Clacton.
		a Rothamsted	63	23rd	43	22nd	59·9	49·8	54·7	+ 5·5	89	0	5	0·74	+ 0·07	17·0	- 7·2	23	-10	Rothamsted.
		a *Shoeburyness* ..	*63*	*23rd*	*47*	*22nd*	*60·7*	*52·3*	*56·4*	+ *5·5*	*101*	*0*	*4*	*0·21*	- *0·26*	*17·9*	—	*25*	—	*Southend.*
		p Tottenham	64	17th	46	22nd	61·4	52·1	56·6	+ 8·0	102	0	5	0·37	—	13·9	—	19	—	Tottenham.
4. MIDLAND COUNTIES.	a, East.	a Harrogate	60	18th, 20th	40	22nd	57·7	46·6	52·0	+ 5·2	70	0	5	0·62	- 0·12	21·6	—	30	—	Harrogate.
		a Bawtry	65	18, 19, 20th	40	22nd	62·3	44·7	53·2	+ 5·9	78	0	5	0·49	- 0·08	15·3	- 3·7	21	- 5	Worksop.
		p *Buxton* .. M	*60*	*20th*	*40*	*22nd*	*56·3*	*45·5*	*50·7*	+ *5·9*	*61*	*0*	*6*	*1·58*	+ *0·40*	*19·7*	—	*27*	—	*Buxton.*
		a Nottingham ..	64	20th	42	22nd	60·0	45·9	52·7	+ 4·7	75	0	6	0·68	+ 0·13	21·3	—	29	—	Nottingham.
		p Birmingham, Edgbsn	64	20th	42	22nd	58·7	47·4	52·9	+ 5·2	76	0	6	0·72	+ 0·12	17·2	—	24	—	Birmingham.
		a Raunds .. M	63	18th, 23rd	41	22nd	60·6	47·8	54·0	+ 5·9	84	0	5	0·62	—	*	*	*	*	*
		a Oxford	61	17, 19, 20th	45	22nd	59·9	50·9	55·3	+ 6·9	93	0	6	0·58	- 0·02	17·7	- 5·1	24	- 7	Oxford.
	b, West.	a Cheadle .. M	60	17, 18, 19, 20	38	22nd	58·3	45·4	51·7	+ 5·3	68	0	6	1·29	+ 0·59	18·8	—	26	—	Sheffield.
		p Shrewsbury	65	20th	43	19th, 22nd	60·2	47·4	53·6	+ 5·6	81	0	6	0·81	—	*	*	*	*	*
		a Hereford .. M	63	18th	37	19th	60·6	46·4	53·3	+ 4·9	79	0	6	0·87	+ 0·27	*	*	*	*	*
		a Cirencester	61	18th	38	22nd	57·9	46·8	52·2	+ 4·7	71	0	7	1·57	+ 0·90	15·3	- 7·4	21	-10	Cirencester.
		a Bath	64	18th	45	22nd	61·6	50·6	55·9	+ 6·3	97	0	6	0·70	+ 0·03	22·9	—	31	—	Bath.
																17·5	—	*24*	—	*Ramsgate.*
5. ENGLAND, S.E... ..		p Kew	63	19th	47	22nd	61·1	51·9	56·4	+ 7·4	101	0	3	0·32	- 0·29	17·4	- 3·9	24	- 5	Kew.
		a Marlborough ..	62	18th	40	22nd	59·1	49·0	53·9	+ 6·8	83	0	7	1·11	+ 0·38	19·1	- 2·5	26	- 3	Marlborough.
		a Margate	62	19th, 23rd	44	22nd	60·5	50·6	55·4	+ 4·4	94	0	5	0·29	- 0·33	13·6	- 10·6	19	-15	Margate.
		a Wisley, Surrey ..	63	19th	45	22nd	60·6	52·2	56·3	+ 6·5	100	0	3	0·36	—	17·2	—	24	—	Wisley.
		a Swarraton .. M	62	19th	41	22nd	59·2	50·1	54·5	+ 6·7	88	0	6	0·89	+ 0·39	17·6	—	24	—	Worthing.
		a Tunbridge Wells M	62	19th	42	22nd	58·9	49·6	54·1	+ 5·4	85	0	5	0·90	+ 0·10	15·9	- 8·7	22	-12	Tunbridge Wells.
		a Dungeness	62	19th	46	22nd	60·7	51·9	56·2	+ 4·3	99	0	4	0·41	- 0·29	14·3	—	20	—	Littlestone.
		p Hastings	62	19th	45	22nd	60·1	52·2	56·0	+ 4·9	98	0	5	0·72	- 0·12	*16·0*	- *11·0*	*22*	- *15*	*Hastings.*
		p Southampton ..	64	19th	46	22nd	61·2	51·9	56·4	+ 5·6	101	0	6	1·05	+ 0·25	17·9	- 7·5	25	-10	Southampton.
		a Ventnor	63	19th	51	21st, 22nd	60·9	54·6	57·7	+ 5·2	110	0	5	0·47	- 0·07	25·7	- 1·8	35	- 3	Ventnor.
																19·1	- 7·2	26	-10	Eastbourne.
LONDON		a *Westminster* ..	*63*	*19th, 23rd*	*46*	*22nd*	*61·4*	*52·4*	*56·8*	+ *8·0*	*104*	*0*	*4*	*0·50*	- *0·09*	*13·5*	- *2·0*	*19*	- *3*	*Westminster.*
		a *Greenwich*	*64*	*19th*	*45*	*22nd*	*62·1*	*51·7*	*56·8*	+ *7·5*	*104*	*0*	*5*	*0·35*	- *0·21*	*16·7*	- *4·5*	*23*	- *6*	*Greenwich.*
6.	a, SCOTLAND. W. ..	p Laudale	58	20th	39	18th	54·8	44·7	49·6	+ 1·9	53	0	6	4·79	+ 3·06	*	*	*	*	*
		a Poltalloch .. S	59	20th	34	18th	55·7	43·6	49·5	+ 1·9	53	0	6	1·83	+ 0·69	*	*	*	*	*
		p Glasgow	57	20th, 22nd	43	21st	54·2	45·9	49·9	+ 3·3	55	0	6	1·98	+ 1·21	5·1	-10·7	7	-15	Glasgow.
		p Rothesay .. S	59	22nd	40	18th	55·3	44·4	49·7	+ 2·1	54	0	6	1·87	+ 0·99	*	*	*	*	*
		a Kilmarnock	58	19th, 21st	35	19th	55·7	43·6	49·5	+ 2·5	53	0	5	1·12	—	*12·0*	—	*17*	—	*Kilmarnock.*
		a Colmonell	60	22nd	38	19th	56·6	45·9	51·1	+ 3·7	64	0	7	2·16	+ 1·14	*	*	*	*	*
		p Dumfries	59	21st	43	22nd	55·9	47·6	51·6	+ 4·6	67	0	7	4·50	+ 3·67	*13·5*	—	*17*	—	*Dumfries.*
		p Cally, Gatehouse S	57	17, 18, 20th	37	19th	55·3	42·3	48·6	+ 1·7	46	0	7	1·32	+ 0·22	*	*	*	*	*
	b, ISLE OF MAN ..	p Douglas	58	18th, 20th	44	21st, 23rd	55·9	46·5	51·1	+ 3·0	64	0	7	4·00	+ 2·96	14·1	- 9·1	20	-13	Douglas.
																	—		—	Hoylake.
7.	a, ENGLAND, N.W...	p Aspatria	59	18th, 20th	44	21st	56·2	46·8	51·4	+ 4·3	66	0	7	3·16	+ 2·24	13·0	—	18	—	Aspatria.
		p Newton Rigg ..	60	20th	42	19th, 21st	56·4	45·7	50·9	+ 5·1	62	0	6	2·22	+ 1·35	17·3	- 1·7	24	- 2	Newton Rigg.
		p Stonyhurst	60	18th	43	22nd	57·0	48·1	52·4	+ 5·5	73	0	6	2·42	+ 1·34	18·8	- 1·0	26	- 1	Stonyhurst.
		p Blackpool .. M	62	18th	46	22nd	58·5	49·2	53·7	+ 5·0	82	0	6	? 2·45	+ 1·59	13·3	- 7·4	18	-10	Blackpool.
		p M nch'ster, Prestwich	66	17th	42	22nd	59·9	47·7	53·6	+ 6·3	81	0	6	1·85	+ 0·96	*13·9*	- *0·7*	*19*	- *1*	*Prestwich.*
		a Liverpool (Bidston)	61	20th	45	22nd	58·3	48·1	53·1	+ 3·6	78	0	6	1·02	+ 0·25	*19·6*	—	*27*	—	*Liverpool.*
		a Hawarden Bridge ..	65	23rd	46	19th, 22nd	61·8	48·8	55·1	+ 5·5	92	0	6	0·68	- 0·01	*20·8*	+ *1·2*	*29*	+ *2*	*Southport.*
																26·8	—	*37*	—	*Rhyl.*
	b, NORTH WALES ..	p Llandudno .. M	62	20th	46	19th	59·4	48·6	53·8	+ 3·1	83	0	7	1·30	+ 0·47	20·2	+ 0·5	28	+ 1	Llandudno.
		a Holyhead	59	19th, 20th	47	21st, 22nd	57·6	49·6	53·5	+ 3·0	81	0	6	2·44	+ 1·57	18·6	—	26	—	Aberdovey.
		p Bettws-y-Coed ..	62	18th	42	19th	57·7	47·1	52·2	+ 2·4	71	0	6	3·53	—	13·3	—	18	—	Bettws-y-Coed.
																16·2	—	22	—	Aberystwyth.
	a, SOUTH WALES ..	a Llangammarch Wells	60	20th	40	22nd	58·2	46·2	52·0	+ 5·3	70	0	7	2·05	—	17·7	—	24	—	Llangammarch Wells.
		a Pembroke	60	18th	48	22nd	58·6	52·4	55·4	+ 4·1	94	0	6	1·80	+ 0·43	25·2	+ 1·7	35	+ 2	Pembroke.
		a Cardiff	64	18th	44	22nd	60·3	48·5	54·2	+ 5·8	85	0	7	1·96	+ 0·92	*21·4*	—	*29*	—	*Cardiff.*
																24·8	+ *0·2*	*34*	*0*	*Tenby.*
8.	a Clifton		62	18th	48	22nd	59·8	52·1	55·8	+ 7·1	97	0	6	1·17	+ 0·34	*18·7*	—	*26*	—	*Clifton.*
	a Shaftesbury .. M		61	18th	45	22nd	57·9	49·3	53·5	+ 5·0	81	0	7	0·65	- 0·15	*	*	*	*	*
	a Arlington		62	18th	41	23rd	58·0	47·3	52·5	+ 4·0	74	0	7	1·57	+ 0·11	27·1	+ 1·8	37	+ 2	Newquay.
	b, ENGLAND, S.W. ..	a Cullompton .. M	66	18th	43	21st, 22nd	61·5	48·6	54·9	+ 5·7	90	0	7	0·76	- 0·08	18·3	- 3·3	25	- 5	Cullompton.
		a Portland Bill ..	63	18th	50	22nd	59·9	54·1	56·9	+ 4·5	104	0	6	0·55	—	*27·8*	—	*38*	—	*Weymouth.*
		p Plymouth	64	18th	44	19th	59·8	50·5	55·0	+ 3·8	91	0	7	1·13	+ 0·30	25·8	+ 1·4	35	+ 2	Plymouth.
		p Falmouth	60	17, 18, 20th	48	22nd	58·9	50·3	54·5	+ 2·9	88	0	6	0·85	- 0·23	20·8	- 5·5	28	- 7	Falmouth.
																30·3	+ *5·3*	*41*	+ *7*	*Torquay.*
9. IRELAND, N.	a, West.	a Malin Head	59	17th, 18th	43	22nd	55·6	47·0	51·2	+ 2·3	64	0	5	0·78	+ 0·06	*	*	*	*	*
		a Blacksod Point ..	59	19th	43	22nd	56·0	47·6	51·7	+ 1·8	68	0	6	2·12	+ 0·96	*	*	*	*	*
		p Markree Castle ..	60	20th, 22nd	39	18th	57·1	43·2	49·9	+ 2·7	55	0	6	2·80	+ 1·87	15·3	- 4·7	21	- 7	Markree Castle.
		a Birr Castle	60	20th, 23rd	44	21st, 22nd	58·7	45·9	52·1	+ 4·9	71	0	7	2·22	+ 1·59	*21·7*	- *0·5*	*30*	- *1*	*Birr Castle.*
	b, East.	p Armagh	60	20th	41	21st	55·6	44·4	49·8	+ 2·5	55	0	7	2·72	+ 2·12	19·3	- 1·3	27	- 2	Armagh.
		a Donaghadee	59	20th	44	22nd	55·0	46·7	50·7	+ 1·8	61	0	7	3·39	+ 2·76	*	*	*	*	*
10. IRELAND, S.	a, East.	p Dublin, City.. ..	62	20th	44	21st	58·6	47·3	52·8	+ 3·6	76	0	7	1·57	+ 0·98	22·1	- 2·4	30	- 3	Phœnix Park.
		a Kilkenny	61	20th, 21st	40	19th	59 0	45·6	52·1	+ 4·0	71	0	6	2·37	+ 1·72	*	*	*	*	*
		a Waterford	59	17, 19, 20, 22	40	19th	58·3	46·0	52·0	+ 2·9	70	0	6	2·32	+ 1·52	*	*	*	*	*
		a Birr Castle	60	20th, 23rd	44	21st, 22nd	58·7	45·9	52·1	+ 4·9	71	0	7	2·22	+ 1·59	21·7	- 0·5	30	- 1	Birr Castle.
		a Foynes	61	19th	46	21st, 22nd	58·7	47·9	53·1	+ 3·6	78	0	7	3·07	+ 2·23	*	*	*	*	*
	b, West.	a Cahir .. .. M	64	22nd	39	21st	58·9	45·2	51·9	+ 2·5	69	0	6	2·60	—	*	*	*	*	*
		a Killarney	63	20th	45	19th	59·9	48·1	53·8	+ 4·5	83	0	7	3·31	+ 2·11	*	*	*	*	*
		a Valencia	60	19, 20, 22nd	48	19th	58·7	50·7	54·6	+ 3·3	88	0	7	2·79	+ 1·60	19·7	- 3·7	27	- 5	Valencia.
		a Roche's Point ..	59	22nd	47	21st	57·6	49·7	53·5	+ 2·6	81	0	6	2·17	+ 1·28	26·6	—	36	—	Ballinacurra.
11. ENGLISH CHANNEL..		a Scilly, St. Mary's ..	61	17th, 20th	52	22nd	60·0	54·0	56·9	+ 3·5	104	0	5	0·55	- 0·24	26·8	+ 0·5	36	+ 1	Scilly.
		a Jersey, St. Aubins ..	64	20th	51	20th	62·1	54·4	58·1	+ 4·3	113	0	5	0·60	- 0·40	30·5	+ 1·9	41	+ 3	St. Heliers.
		a Guernsey	67	18th	52	22nd	62·6	54·2	58·3	+ 4·7	114	0	5	1·24	+ 0·22	32·1	+ 6·3	43	+ 9	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 17·0 hrs. (- 10·2 hrs.), 23 % (- 14 %); Bournemouth, 22·2 hrs., 30 %; Bognor, 19·5 hrs., 26 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound	—	—	47·1	—
	— —				
	— —				
1.	Aberdeen	—	—	—	50·1
	Crathes	1	27	49·9	51·0
	Balmoral	0	33	—	—
	West Linton	0	32	—	—
	Marchmont	0	34	48·3	—
2.	Cockle Park	0	37	48·3	49·9
	Durham	0	38	—	—
	York	—	—	52·3	53·2
	Hull	0	37	51·7	53·0
	Lincoln	—	—	52·4	53·4
	Rauceby	0	37	54·0	54·0
3.	Norwich	0	32	—	—
	Yarmouth	—	—	54·9	55·6
	Lowestoft	0	37	55·2	55·7
	Cambridge	1	27	55·2	55·9
	Clacton-on-Sea	0	38	56·1	56·8
	Southend	0	42	56·7	—
	Tottenham	0	40	—	56·7
4.	Harrogate	0	39	50·6	50·9
	Huddersfield	0	38	51·5	52·0
	Buxton	0	34	51·4	51·7
	Sheffield	0	34	52·1	52·6
	Nottingham	0	35	52·7	54·1
	Birmingham	0	36	51·6	52·0
	Oxford	0	—	—	—
	Hereford	1	29	—	—
	Cirencester	1	27	—	—
5.	Margate	0	42	54·9	55·0
	Greenwich	0	39	—	—
	Westminster	0	42	—	—
	Kew	0	35	55·8	55·3
	Canterbury	0	37	55·4	55·7
	Tunbridge Wells	0	35	54·9	—
	Wisley	0	41	55·4	55·7
	Worthing	0	37	56·5	56·9
	Portsmouth	0	41	56·9	57·4
6.	Glasgow	0	38	—	—
	Rothesay	—	—	—	50·9
	Colmonell	0	36	—	—
	Dumfries	0	38	52·0	53·6
	Douglas	0	40	—	—
7.	Aspatria	0	40	—	—
	Newton Rigg	0	35	50·9	51·7
	Burnley	0	39	50·8	51·3
	Southport	0	42	52·7	54·1
	Manchester City	0	39	52·6	54·0
	Bettws-y-Coed	0	40	51·6	52·7
8.	Llangammarch Wells	0	32	52·8	53·2
	Cardiff	0	37	54·5	54·9
	Clifton	0	46	—	—
	Bath	—	—	56·7	56·9
	Plymouth	0	34	56·2	—
9.	Armagh	0	33	51·8	53·3
	Markree	0	32	52·2	54·2
10.	Dublin, Trin. Coll.	0	36	52·2	53·8
11.	Guernsey, Brooklyn	0	44	57·5	58·2

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	50	50	50·0
	Kirkwall	49	48	48·5
	Wick	51	51	51·0
SCOTLAND, E.	Cromarty	51	51	51·0
	Pennan Bay	51	49	49·7
	Aberdeen, Cove Bay	53	50	52·0
ENGLAND, N.E.	Burnmouth, Berwick	52	50	50·5
	Scarborough	54	49	51·3
ENGLAND, E.	Shipwash Lightship	59	57	58·3
	Margate‡	58	56	57·3
ENGLAND, S.E.	Eastbourne‡	58	57	57·9
SCOTLAND, W.	Lamlash	53	51	52·1
	Ballantrae	53	53	53·0
ENGLAND, N.W.	Port Erin	55	54	54·2
ENGLAND, S.W.	Newquay	58	57	58·0
	Plymouth‡	58	57	57·8
	Salcombe	59	56	57·6
IRELAND, N.W.	Sheephaven	53	52	52·5
	Teelin	54	52	53·5
IRELAND, S.W.	Cleggan	55	53	54·3
	Seafield	57	54	55·8
IRELAND, E.				

‡ Only one observation each day.

CORRECTIONS AND ADDITIONS FOR SEPTEMBER, 1909.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

NUMBER AND PAGE OF REPORT.	NUMBERS OF DISTRICTS AND NAMES OF STATIONS.	**Temperature.** In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week, Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Daily Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	**Rainfall.** Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	**Bright Sunshine.** Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 37, p. 298	0. Scotland, N.	—	—	—	—	—	—	—	—	—	—	—	0·15	-0·76	—	—	—	—
No. 38, p. 306	5. England, S.E.	—	—	—	—	—	—	—	—	—	—	—	0·59	+0·12	—	—	—	—
No. 38, p. 306	6. Scotland, W.	—	—	—	—	60·7	45·1	52·6	-0·2	74	—	—	0·34	-0·59	24	-5	28	-5
No. 39, p. 314	5. England, S.E.	—	—	—	—	—	—	—	—	—	—	—	1·31	+0·69	—	—	—	—
No. 39, p. 314	6. Scotland, W.	—	—	—	—	—	—	—	—	—	—	—	1·05	-0·09	—	—	—	—
Station Values.— Additions.																		
No. 36, p. 291	Tenby	—	—	—	—	—	—	—	—	—	—	—	—	—	37·5	-1·3	41	-2
No. 37, p. 299	Fort Augustus	66	17th	32	14th	61·0	40·5	50·3	-2·6	64	4	1	0·06	-0·84	49·0	+29·4	54	+32
No. 37, p. 299	Cromer	62	12, 16	47	14th	59·4	51·7	55·4	-1·1	94	0	6	0·62	—	25·7	—	29	—
No. 37, p. 299	Norwich	65	12, 16	46	12, 15, 18	61·6	50·2	55·6	-1·4	95	0	4	0·69	—	—	—	—	—
No. 37, p. 299	Tenby	—	—	—	—	—	—	—	—	—	—	—	—	—	37·1	+0·5	42	+1
No. 38, p. 307	Norwich	74	23rd	42	21, 22	64·3	49·6	56·6	+0·5	102	0	3	0·21	—	—	—	—	—
No. 38, p. 307	Swarraton	70	22nd	40	21st	64·2	47·3	55·3	+0·9	93	0	2	0·20	-0·35	—	—	—	—
No. 38, p. 307	Douglas	66	19th	43	21st	61·8	49·0	55·1	+1·6	92	0	1	0·02	-0·88	—	—	—	—
No. 38, p. 307	Tenby	—	—	—	—	—	—	—	—	—	—	—	—	—	34·6	+0·1	40	0
No. 39, p. 315	Glencarron	59	29th	38	1st	55·4	43·4	49·1	+0·3	50	0	3	0·58	-1·45	—	—	—	—
No. 39, p. 315	Norwich	67	2nd	43	28th	60·1	48·3	53·9	-1·0	83	0	6	0·39	—	—	—	—	—
No. 39, p. 315	Swarraton	63	1, 2	40	30th	59·1	47·8	53·2	+0·3	78	0	5	2·16	+1·56	—	—	—	—
Station Values.— Corrections.																		
No. 35, p. 283	Scarborough	—	—	—	—	—	—	—	—	—	—	—	0·35	-0·20	—	—	—	—
No. 35, p. 283	Hillington	—	—	—	—	61·4	43·9	52·2	-6·1	71	—	7	0·46	-0·14	35·1	-2·3	37	-2
No. 36, p. 291	Deerness	—	—	—	—	—	—	—	—	—	—	—	—	—	10·6	-15·5	10	-17
No. 36, p. 291	West Linton	—	—	—	—	—	39·8	47·6	-5·3	—	6	—	—	—	—	—	—	—
No. 36, p. 291	Spurn Head	—	—	—	—	—	—	—	—	—	—	3	0·30	-0·08	—	—	—	—
No. 36, p. 291	Tottenham	—	—	—	—	63·3	48·8	—	—	—	—	—	—	—	—	—	—	—
No. 36, p. 291	Cheadle	—	6th	—	—	58·2	—	51·3	-3·6	75	—	4	0·97	+0·31	—	—	—	—
No. 37, p. 299	Cheadle	—	—	—	—	—	46·0	51·7	-2·5	68	—	—	—	—	—	—	—	—
No. 37, p. 299	Hereford	—	—	—	—	58·7	—	53·5	-2·6	81	—	—	—	—	—	—	—	—
No. 38, p. 307	Tottenham	—	—	—	—	—	—	—	—	—	—	—	—	—	28·4	—	33	—
No. 38, p. 307	Cheadle	—	—	—	—	59·6	—	53·3	+0·1	79	—	—	0·61	-0·01	—	—	—	—
No. 38, p. 307	Douglas	—	—	—	—	—	—	—	—	—	—	—	—	—	37·2	+4·4	43	+5
No. 38, p. 307	Llandudno	—	—	—	—	—	—	—	—	—	—	4	0·31	-0·26	—	—	—	—
No. 39, p. 315	Laudale	—	—	—	—	—	—	—	—	—	—	3	1·28	-0·42	—	—	—	—
No. 39, p. 315	Shaftesbury	64	—	—	—	58·8	—	53·7	-0·1	82	—	—	—	—	—	—	—	—

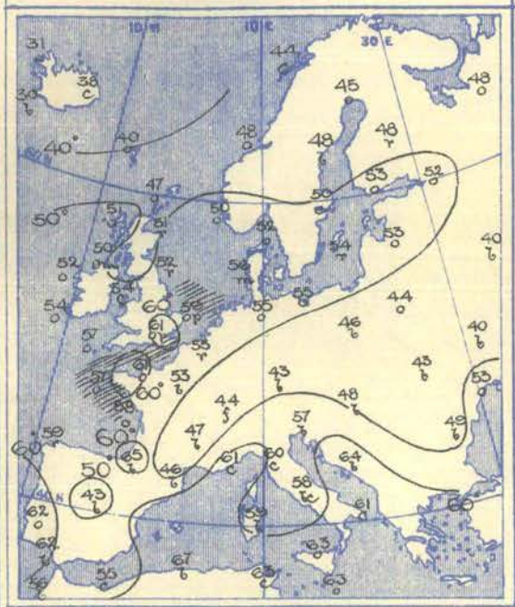
		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
Station Values.— Additions.					
No. 37, p. 300	Norwich	0	38	—	—
No. 37, p. 300	Bath	—	—	57·3	58·9
No. 38, p. 308	Norwich	0	37	—	—
No. 38, p. 308	Douglas	0	38	—	—
No. 39, p. 316	Norwich	0	37	—	—
Station Values.— Additions.					
No. 37, p. 300	Plymouth	1	30	—	—

No. 35, p. 284 — Additional observations in the upper air. 6,500 metres 5.15.

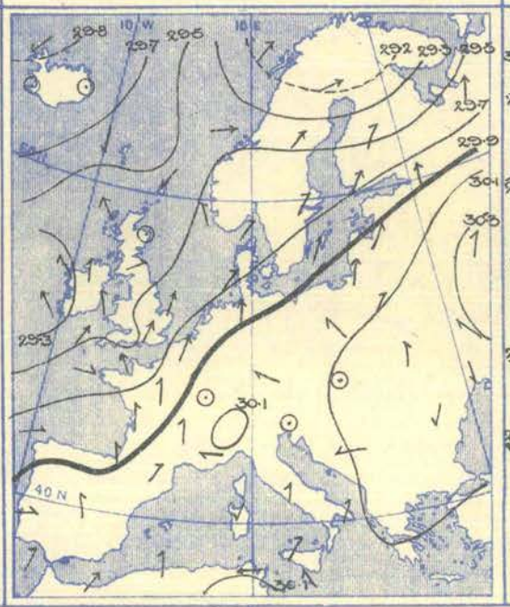
No. 39, p. 313 — Date, Sunday, September 26th, to Saturday, October 2nd.

Sunday, 17th October, 1909.

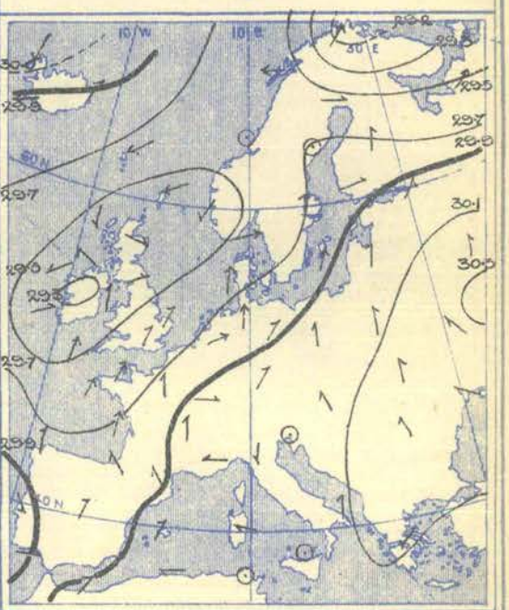
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled over the United Kingdom and the western countries of the Continent, with rain in several localities; fair to very fine over most of Russia and the Mediterranean regions. An inch of rain experienced later at Donaghadee, and smaller quantities over these Islands generally. Considerable or heavy falls of rain in various parts of France, Italy, and Scandinavia, and thunderstorms at Leghorn and Florence.

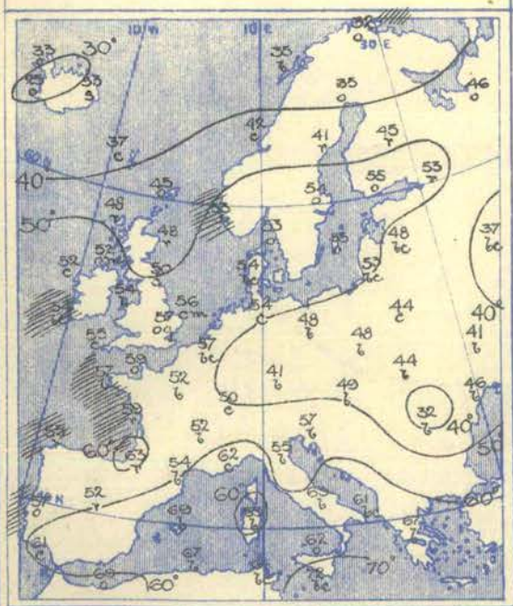
Temperature showing little change. Readings in morning ranging from about 65° at some stations in the far south of our area and about 60° in the south and south-east of England to below 50° over the major portion of the Continent; lowest value, 43° at Munich. Maxima during day slightly above 70° at various places in the Mediterranean district, but below 65° over our area generally, and below 60° in some parts of central Europe and the north and west of these Islands.

Wind in morning mainly cyclonic in the west and south of our area, and anticyclonic in the east. Moderate to light breezes prevailing generally, but a high Westerly wind at Christiansund, and a high wind from North-East in the north-west of Iceland. Cyclonic circulation becoming more complete over these Islands during day, and some increase in force taking place on our south-west coast and also on the coast of Denmark. A strong gale from South-West springing up at Vardö.

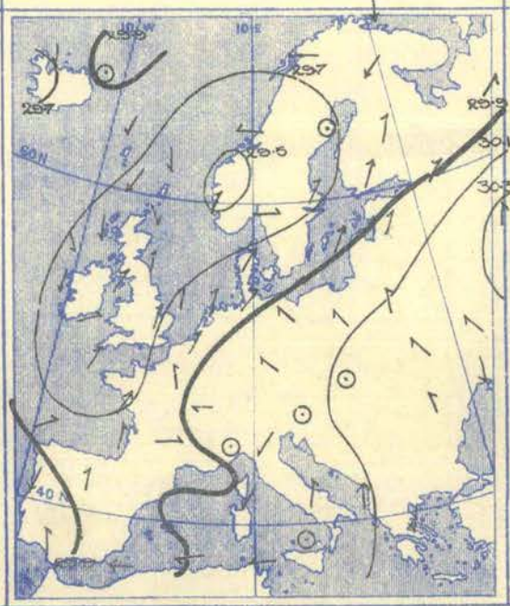
Barometer in morning above 30·3 ins. in a large anticyclone centred over Russia; below 29·3 ins. in a depression off the west of Ireland, below 29·2 ins. in the far north of Scandinavia, and relatively low in less important systems in other parts of our area. Irish depression moving eastward during day and that in the extreme north apparently travelling north-eastward. A shallow secondary system appearing over the Bay of Biscay.

Monday, 18th October, 1909.

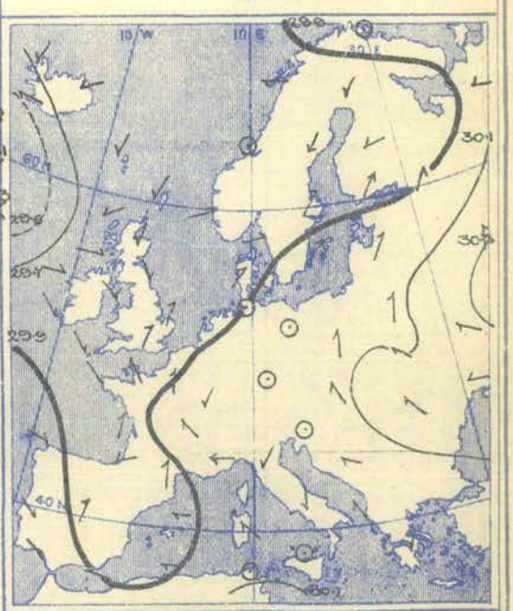
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning variable, with a good deal of cloud and rain in places, over the United Kingdom, Spain, the west of France, and Scandinavia; generally fair to very fine elsewhere, but rainy at Lugano. Slight rain later in various parts of these Islands, and heavier amounts in northern Europe, at Lugano, in some Spanish localities, and at Nemours. Aurora at night at Aberdeen and Malin Head.

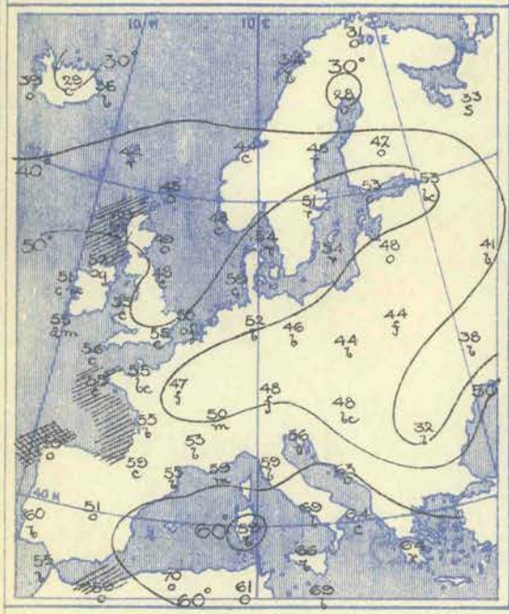
Temperature fallen somewhat in most regions. Morning readings below 50° over Scotland and the major portion of the Continent, and below 40° in central Russia and northern Scandinavia; nearly 60° on the south coast of England, and above 60° over most of the Mediterranean region. Highest value, 72° at Malta. Rising to a little above 60° during day over a large part of England, Germany, and the north of France, and to above 70° over the south of our area, but only touching 54° at Vienna and Prague.

Wind in morning showing partial or complete cyclonic circulations over the greater part of our area, but an anticyclonic movement over Russia, moderate or light generally, but high at Toulouse and strong at Wisby. No important change in direction during day, but force decreasing in many districts; falling very light over these Islands.

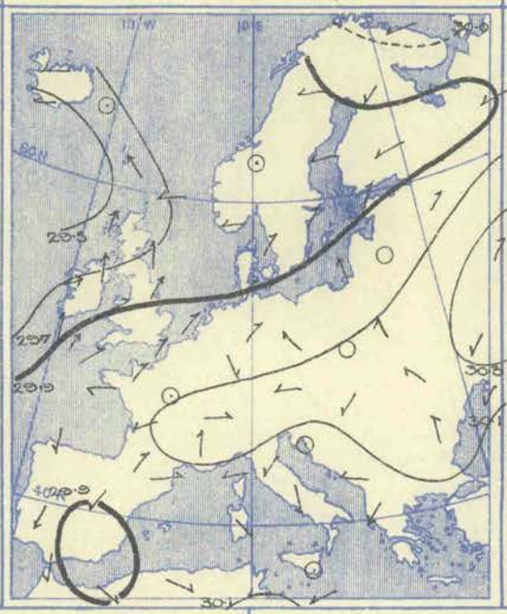
Barometer in morning above 30·3 ins. in the central parts of Russia; below 29·5 ins. in a large complex low pressure system having its minimum over the south-west of Norway, and relatively low over the Mediterranean. Below 29·7 ins. off the south-west of Iceland. Pressure increasing during day over all the western countries, but decreasing somewhat over Iceland. Readings becoming very uniform over these Islands and France.

Tuesday, 19th October, 1909.

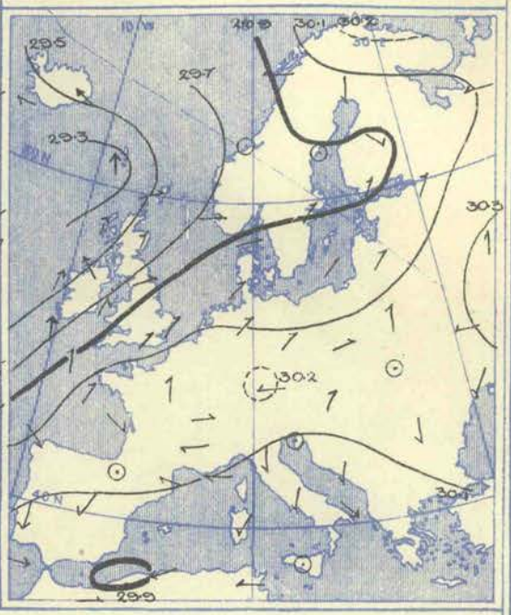
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the major portion of the Continent, but cloudy or overcast in Scandinavia, with rain in some localities; mostly cloudy or dull in these Islands, with rain or passing showers in the west and north. Heavy rain later in the north of England and in various parts of Ireland, and considerable falls at some Spanish stations and at Nemours.

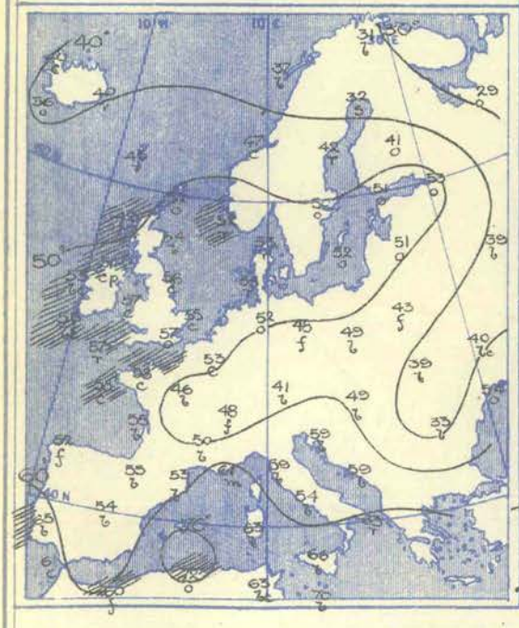
Temperature changed rather irregularly, fallen over England and France. Morning readings ranging from about 70° at a few stations in the extreme south of our area to about 50° over a very large portion of the Continent and these Islands, to 38° at Kieff, and to 28° at Haparanda. Maxima during day 81° at Tunis, above 70° in several other localities in the far south, about 60° in various parts of these Islands and central Europe, but only 55° at Vienna.

Wind in morning light or moderate from between South-West and South over the United Kingdom, and light to strong from East or South-East over the Icelandic region. Light airs from no general direction prevailing over the Continent. Increasing to a fresh or strong breeze during day on our most western coasts, but little other change.

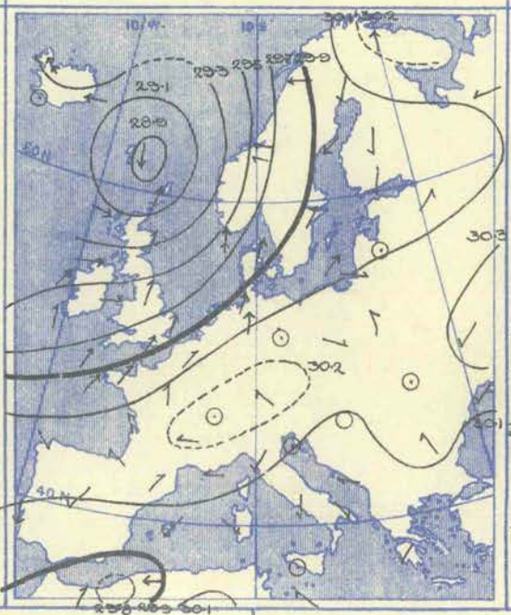
Barometer in morning below 29·5 ins. in a large depression off the north-west of this country, and below 29·9 ins. in a shallow system over Spain; above 30·3 ins. in an anticyclone centred over Russia, and relatively high in a band extending thence to France. Depression in north-west moving eastward during day; pressure giving way very briskly at Thorshavn, and decidedly over the west and north of these Islands, as well as in Iceland.

Wednesday, 20th October, 1909.

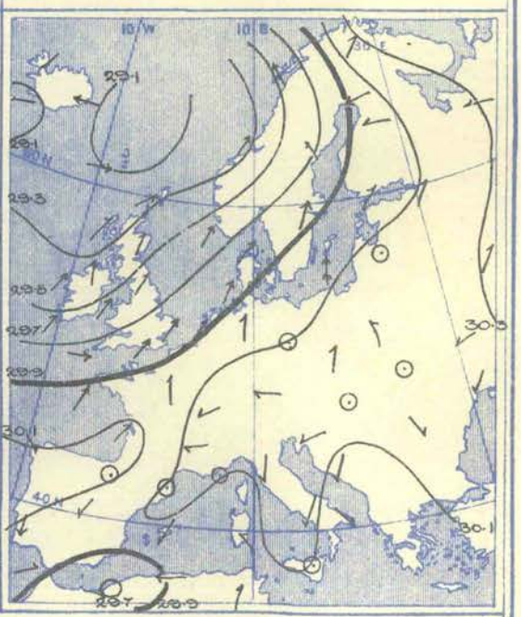
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to overcast in these Islands, with passing showers in a few places; overcast, with rain over a large area in Scandinavia; mostly fine and bright over the southern half of Europe, but rainy at Brindisi. Rain later over the whole of this country and the north of France, in many parts of northern Europe, and at Vienna, and a thunderstorm, with more than 2·0 ins. of rain, at Oran. Thunder also experienced at Stornoway, and aurora seen at Oxford.

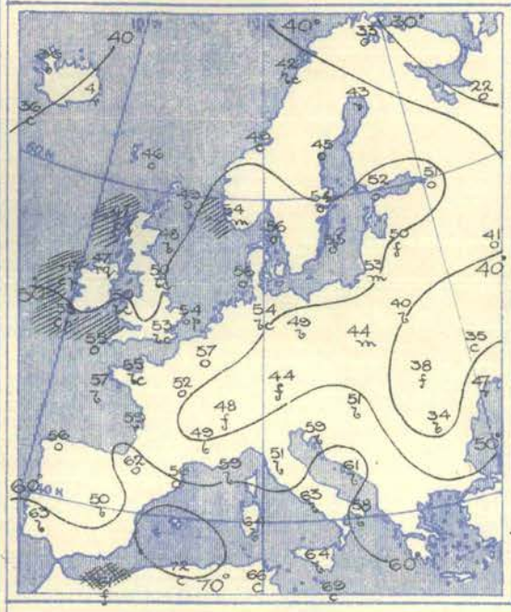
Temperature fallen in most regions on the Continent, risen in these Islands. Morning readings above 55° over a large portion of Great Britain, above 65° at several stations on the shores of the Mediterranean, and as high as 72° at Algiers. Below 50° over central Europe, and below 40° in a large area in Russia and northern Scandinavia. Maxima during day rather above 60° in various parts of this country and northern France, above 70° in the southern countries, and as high as 81° at San Fernando.

Wind in morning showing a very extensive cyclonic circulation over these Islands and north-western Europe; Westerly to South-Westerly current fresh to high over this country, and that from South blowing a gale on the south-west coast of Norway; a fresh Easterly breeze to a South-Easterly gale prevailing in Iceland. Light anticyclonic airs prevalent over Russia and central Europe. Decreasing in force during day over these Islands and their neighbourhood, but increasing to a gale at Wisby, and to strong or high winds over the most western portion of the Mediterranean.

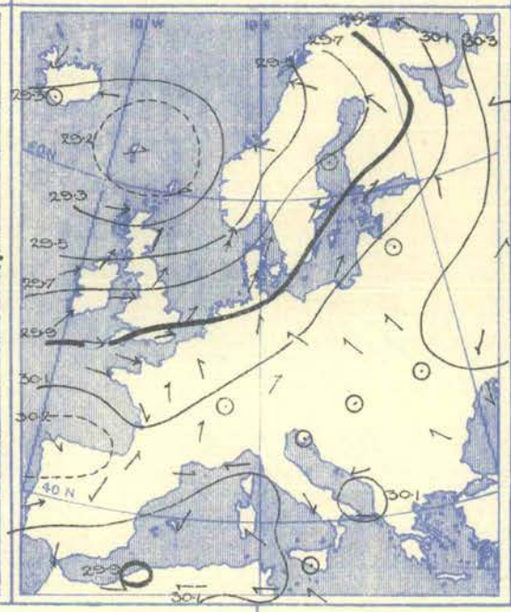
Barometer in morning below 28·9 ins. in a depression centred off the north of Scotland; above 30·4 ins. in an anticyclone over Russia, and nearly as high in the central countries and the extreme north of the Continent. Main disturbance beginning to disperse during day, but a secondary approaching the north-west of these Islands, and a small system over Algeria growing deeper. Little modification occurring within the high pressure areas.

Thursday, 21st October, 1909.

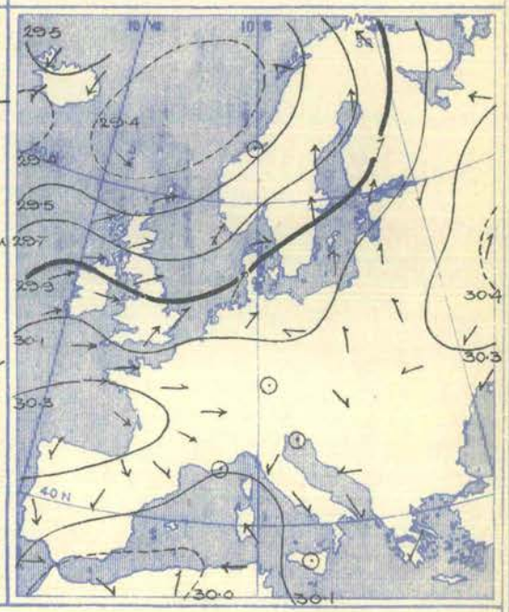
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning fair in the south of England and in some other parts of these Islands, but cloudy or dull over the north-western portion of our area generally, with rain in many localities; mainly fair to fine over the Mediterranean and southern Europe. Some rain later at most of our own stations, with thunderstorms in places, and rain experienced over a large portion of the Continent and in Algeria, with thunderstorms at Fanö and Sfax. Aurora seen at night at Oxford.

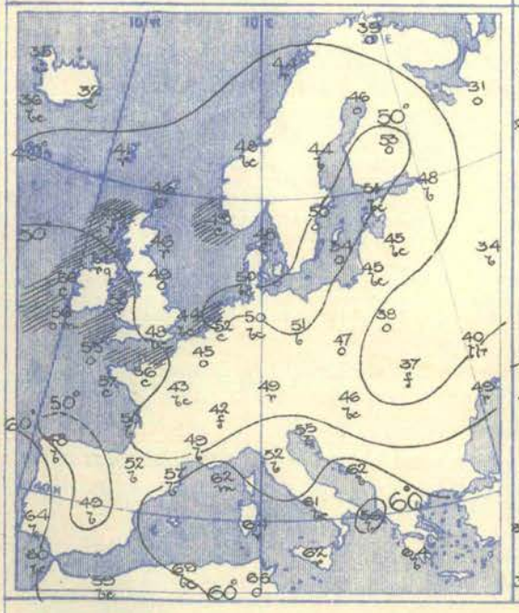
Temperature fallen in most regions. Readings in morning as low as 22° at Archangel, and below 40° in the far north of Scandinavia and at some places in the east of our area; below 50° over the greater portion of Europe, but above 60° very generally in the south, and about 70° in several places. Maxima during day about 60° at a few of our own stations and at several in the central countries, slightly above 70° over a large area in the south, and nearly 80° in places.

Wind in morning showing a vast cyclonic movement affecting these Islands and north-western and northern Europe generally; fresh to strong in many localities, and blowing a gale on the south-west coast of Norway. A North-Easterly gale prevailing in the north-west of Iceland. No change of much importance later in day, but veering temporarily towards West in the United Kingdom.

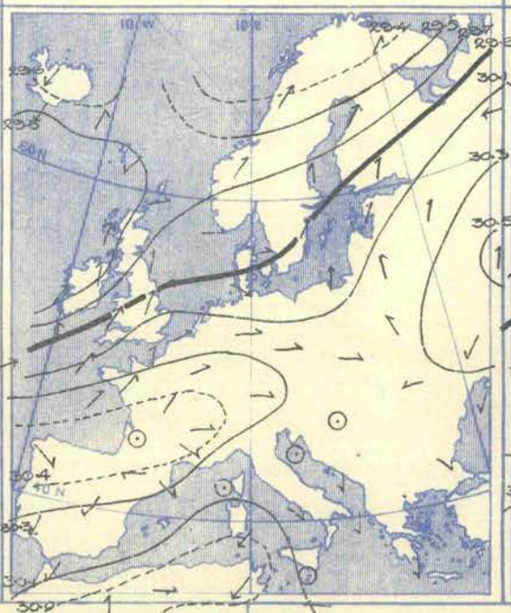
Barometer in morning below 29·2 ins. in a large disturbance having its minimum between Shetland and Iceland, and below 29·9 ins. in a smaller system over Algeria. Above 30·3 ins. over the greater portion of Russia, and only a little lower over the north of Spain and the adjacent part of the Bay of Biscay. Both depressions apparently decreasing somewhat in intensity during day, but very little change occurring in the general distribution of pressure. A very brisk fall of the barometer setting in on our west coasts during night.

Friday, 22nd October, 1909.

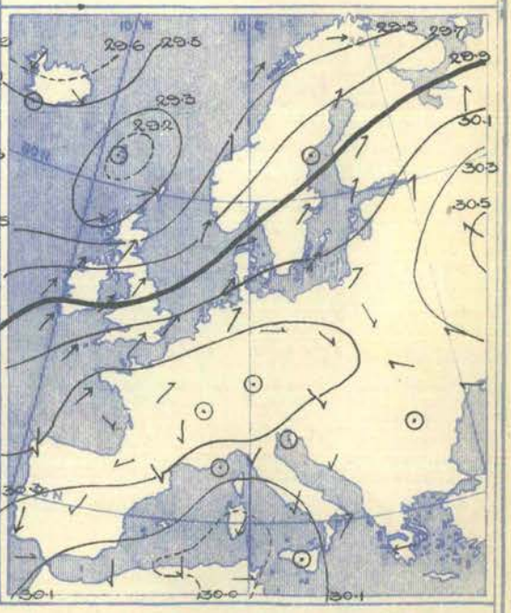
Temperature and Weather — 7 a.m.



Barometer and Wind — 7 a.m.



Barometer and Wind — 6 p.m.



Weather in morning rainy in the west and north of these Islands, and cloudy or overcast over the Kingdom generally. Fair to fine and bright over most of the Continent, but dull at some stations in central Europe and in a few localities elsewhere, with rain at Bodö, Munich, Cagliari, and Odessa, and a thunderstorm at Kieff. Rain experienced later in nearly all parts of this country, more than an inch at Valencia, and rain also falling in Scandinavia, and considerable amounts in Sardinia, Sicily, and Algeria.

Temperature changed irregularly. Morning readings ranging from about 70° at a few places in the extreme south to below 50° over a large area, and to below 40° in the far north and in certain parts of Poland and Russia. Maxima during day again about 60° in many parts of this country, rather lower in central Europe, but above 70° over a large area in the south, and as high as 79° at San Fernando.

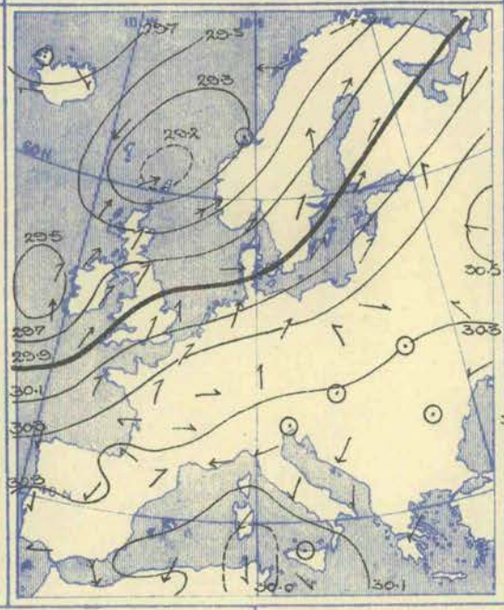
Wind in morning fresh to high from the Southward along our west and north-west coasts, and mainly North-Easterly over the Icelandic region. Varying in force from the Westward over Denmark and the Baltic, and from the Southward in Scandinavia and Finland. Light or moderate breezes, mainly from some Northerly point, over the south of our area. Increasing somewhat in force during day over these Islands and veering a few points; increasing to a gale on the south-west coast of Norway and at Wisby.

Barometer in morning above 30·5 ins. in central Russia, and nearly as high over France and the Bay of Biscay; below 29·5 ins. in a large depression off the north-west of these Islands, below 29·4 ins. in the far north, and relatively low in an elongated depression over Algeria. The central portion of a large depression appearing off the north of Scotland by evening, and barometer rising again briskly in Ireland. A new and rapid decrease of pressure taking place during night on the west coast of Ireland.

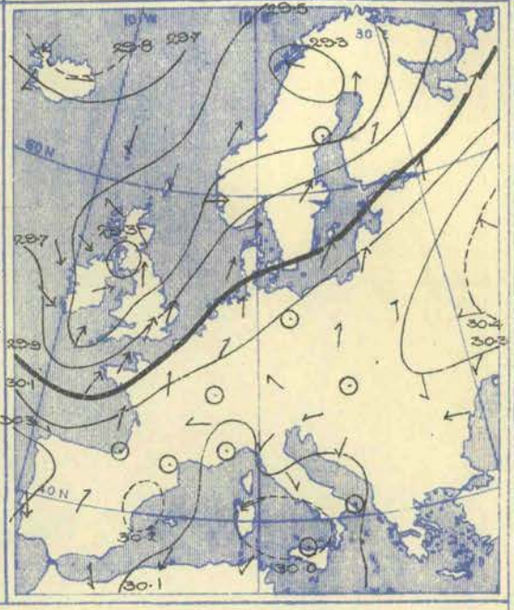
Saturday, 23rd October, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rough and unsettled over Ireland, England, the North Sea, and Scandinavia, with rain in several localities. Rain also falling in Finland, the south of Russia, Malta, and Algeria. Fair to fine and bright over Italy and the Spanish Peninsula. Very heavy rain later in the north and north-west of these Islands, more than an inch at several stations, and considerable falls in the north-west of our area generally. Very heavy rains at Algeria and Tunis; about 1·8 in. at the latter station.

Temperature risen in England, fallen in many Continental localities. Readings in morning ranging from above 65° at some places in the far south and nearly 60° in the south of England, to below 50° generally, and to below 40° at Limoges, over a large portion of Russia, and in the extreme north of Scandinavia. Maxima during day rather above 70° over a large portion of the Mediterranean region, but below 60° at several of our own stations and in central Europe.

Wind in morning fresh to strong from the Southward over England and Ireland. A complete cyclonic movement shown in the north of our area, the South-westerly to Southerly current blowing a gale or a very strong breeze over Scandinavia. Light or moderate breezes, mainly from the Northward, prevailing over the Mediterranean and Italy, but strong to a gale at Oran. Increasing to a fresh to whole gale during day or at night over many parts of England and Ireland. Attaining the velocity of 90 miles an hour, in squalls, at Scilly between 7 and 8 p.m.

Barometer in morning below 29·2 ins. in a depression between Norway and the Faeroe, below 29·5 ins. in another system off the west of Ireland, and below 30·0 ins. over Tunis and its vicinity. Above 30·5 ins. in an anticyclone centred over Russia, and relatively high in a band extending thence to the Spanish Peninsula. A well defined cyclonic centre travelling north-eastward across Ireland during day and gradient increasing both over England and Ireland. Northern depression moving north-eastward to Northern Scandinavia.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
												Metres.	
1	1909. Oct. 17th, 10.20 a.m. to 11.8 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	288° 100% 190°, 14	287° 100% 210°, —	275·6° 100% 200°, —					285·6° 100% 200°, 24 ?	950	Overcast. Heavy rain at times. Kite broke away but meterograph found. Anemometer trace partially washed out by the rain.
2	Oct. 18th, 10.10 a.m. to 11.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	288·5° 90% 170°, 5	287·5° 90% 170°, 9	286° 70% 180°, 10	284 60% 190°, 11				283° 65% 195°, 11	1,250	No clouds reached. Very steady wind.
3	Oct. 19th, 10.7 a.m to noon.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282·7° 90% 214°, 5	282·5° 84% 218°, 8	282·0° 65 to 90% 220°, 10	281·0° 56% 240°, 15	281·3° 38% 240°, 17			281·3° 32% 244°, 17	1,740	Fair to overcast. Gentle breeze. Clouds; Cu. and Cu.-Ni.
4	Oct. 20th, 4.30 p.m. to 5.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	285° 85% 185°, 7	284·5° 86% 188°, 9	284° 86% 190°, 10	281·5° 82% 203°, 25	279° 79% 214°, 24			277° 64% 220°, 27	1,850	Fair to fine. Moderate breeze. Clouds; Cu. and Cu.-Ni.
5	Oct. 21st, 8.25 a.m. to 9.20 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	280° 85% 214°, 10	279° 85% 220°, 12	278·6° 84% 223°, 14	275·5° 82% 250°, 22	273° 86% 252°, 25			271·5° 85% 252°, 26	1,700	Fair to fine. Strong breeze. Clouds; Cu. Kite dived continuously during winding in.
6	Oct. 21st, 2.8 p.m. to 2.40 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	286° 80% 260°, 13	285° 80% 250°, 16	288° 70% 250°, 16					281° 85% 250°, 16	750	Fr.-Cu. No clouds reached.
7	Oct. 22nd, 10.3 a.m. to 10.40 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	288·5° 90% 190°, 7	284·5° 90% 200°, 12	283·5° 90% 220°, ?					283·5° 90% 220°, ?	570	Strong gusty wind with sudden change of direction and great increase of strength at 400 m.
8	Oct. 22nd, 11.37 a.m. to 11.58 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281·5° 80% 180, 13	281° 85% 185°, 15	280·3° 86% 188°, 16	277° 90% 223°, 23				276° 100% 225°, 24	1,120	Overcast and dull. High wind. Clouds; Cu. and Cu.-Ni.
9	Oct. 23rd, 9.50 a.m. to 10.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	288·5° 100% 200°, 10	287·5° 100% 200°, 15	286° 100% 200°, 19						500	Strong gusty wind. Overcast.
10	Oct. 23rd, 10.50 a.m. to 11 0 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	288° 95% 220°, 9	287° 100% 220°, 12	284·5° 100% 220°, 13	281·5° 100% 220°, 14				281·5° 100% 220°, 14	1,050	Overcast, rain at times. Clouds at 350 m. on ascent, at 100 m. on descent.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10
No. of Kites or Balloons	1	1	1	1	1	1	1	1	1	1
Area of Surface (sq. metres) ..	5	7	7·6	7·6	7·6	5	7	7·6	4	5
Length of Wire (metres)	1,000	2,000	2,100	2,000	1,900	950	600	1,600	600	1,800

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 43. FORTY-THIRD WEEK, SUNDAY OCTOBER 24TH TO SATURDAY OCTOBER 30TH, 1909. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather was exceedingly rainy in the S.E. and S. of England and at times in the east and extreme S.W. also. Over Ireland, Scotland, and the N. and N.W. of England it was much drier, and frequently very bright. Thunder and lightning were experienced at Stonyhurst and Colmonell on Sunday, and lightning was seen in a few places later in the week. A few showers of snow or sleet occurred in various parts of the country—mostly in the N.

Temperature was below the average, the deficit being more than 7° in Scotland W., about 6° in Scotland E., England N.W., and in Ireland, and about 5° in several other districts. The highest of the maxima were generally registered on the 24th, and ranged from 61° in England S.E. to 50° in Scotland N. The lowest of the minima, which were recorded at most stations either on the 29th or 30th, ranged from 18° in Scotland E., 20° in Scotland N., 21° in Scotland W., and 22° in Ireland N., to 28° in England E., and to 36° in the English Channel. The lowest grass minima reported were 13° at West Linton, 15° at Aspatria and Newton Rigg, 16° at Crathes and Markree Castle, 17° at Plymouth and Cambridge, and 18° or 19° at several other stations.

Mean Temperature of the Sea.—At most stations the water was colder than during the corresponding week of last year. The actual figures ranged from 57°·4 at Newquay and 56°·1 at Plymouth to slightly below 50° at most places in the N.W. and N.E. and to 45° at Kirkwall.

Rainfall was much less than the normal in Scotland, Ireland, and the N.W. of England, but greatly in excess in England S.E., England E. and the English Channel, and considerably in excess in England S.W. Falls of an inch or more in 24 hours were very common in the S. and S.E. on Tuesday, and several stations experienced equally heavy falls on Thursday, while in various parts of Kent an inch or more fell on Wednesday also. The heaviest daily falls reported were 3·32 ins. at Brighton, 2·50 ins. at Shoeburyness, 2·34 ins. at Worthing, and 2·10 ins. at Shaftesbury on Tuesday, and 2·93 ins. at Margate, 2·73 ins. at Broadstairs, 2·43 ins. at Dungeness, and 2·18 ins. at Dover on Thursday. At Broadstairs the total for the week was 6·03 ins., and three days rain yielded 5·79 ins., at Margate the total for the week was 5·68 ins. and at Brighton 5·15 ins.

Bright Sunshine was less than the average in England E. and S.E., but more over the Kingdom generally, the excess being large in the west and north. The percentage of the possible duration ranged from 55 in Scotland W., 50 in Ireland S., and 47 in Scotland E. to 29 in England S.E., and 20 in England E.

Barometer and Wind.—At the commencement of the week the centre of a depression had passed quickly from the north-east of England to the south-west of Norway, and the wind was fresh or strong to a gale from the North-West over these Islands. During Monday, however, the wind fell light, and a fresh fall of the barometer and a backing wind in the South-West indicated the approach of another disturbance. This system moved slowly south-eastward to the west of France, and subsequently northward and north-eastward to the south-east of these Islands, where it was centred on Friday morning, and finally north-north-eastward over the North Sea. The Easterly and North-Easterly winds that resulted from this change of pressure distribution were frequently very strong to high in the south-east and south until Saturday, reaching the force of a gale at times on the Channel. At the end of the week, when an anticyclonic system was extending over the Kingdom from the Atlantic, the wind was light and becoming variable in direction.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 348.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Very deficient	Very deficient	Very deficient	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Deficient
	Rainfall ...	Light	Moderate	Moderate	Very heavy	Moderate	Very heavy	Light	Light	Heavy	Light	Light	Very heavy
	Sunshine ...	Very abundant	Very abundant	Moderate	Scanty	Moderate	Moderate	Very abundant	Very abundant	Abundant	Abundant	Very abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 8 weeks from Sept. 5th, 1909.	Warmth ...	2 * 3	2 * 3	2 * 3	3 * 2	3 * 2	3 * 3	3 * 3	3 * 3	3 * 3	4 * 3	4 * 3	3 * 2
	Rainfall ...	3 * 4	4 * 1	0 * 1	2 * 0	2 * 0	4 * 0	3 * 2	3 * 2	3 * 1	3 * 3	4 * 4	4 * 1
	Sunshine ...	2 * 2	2 * 3	0 * 3	0 * 5	0 * 3	0 * 2	2 * 5	2 * 1	1 * 2	2 * 2	2 * 2	1 * 4

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

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UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-THIRD WEEK—October 24th to October 30th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	50	20	44·0	31·8	37·8	− 7·1	6	− 24	36	+25	4	− 1	0·54	− 0·65	30	+ 14	46	+21
Eastern																		
1. SCOTLAND, EAST	51	18	44·1	31·6	37·7	− 6·2	6	− 26	36	+22	4	0	0·39	− 0·29	31	+ 13	47	+20
2. ENGLAND, N.E.	59	27	46·8	36·3	41·4	− 5·0	13	− 25	22	+16	4	0	0·56	− 0·17	23	+ 5	34	+ 7
3. ENGLAND, EAST	58	28	47·7	38·0	42·8	− 4·3	22	− 22	11	+ 4	6	+ 2	1·85	+1·23	14	− 7	20	−10
4. MIDLAND COUNTIES	54	26	46·5	36·0	41·1	− 5·0	13	− 27	23	+14	4	0	0·65	0·00	23	+ 5	33	+ 7
5. ENGLAND, S.E.	61	25	48·7	39·0	43·7	− 4·9	25	− 27	8	+ 3	5	+ 1	3·10	+2·33	20	− 1	29	− 2
Western																		
6. SCOTLAND, WEST	56	21	46·2	31·8	38·7	− 7·4	12	− 26	37	+29	2	− 2	0·29	− 0·82	38	+ 21	55	+30
7. ENGLAND, N.W.	54	23	46·2	35·9	40·9	− 6·3	12	− 31	23	+18	3	− 1	0·42	− 0·44	28	+ 11	41	+15
8. ENGLAND, S.W.	59	24	48·4	39·4	43·7	− 5·1	23	− 29	7	+ 3	5	+ 1	1·68	+0·65	28	+ 7	39	+10
9. IRELAND, NORTH	52	22	46·6	35·2	40·7	− 5·9	13	− 27	26	+20	4	− 1	0·45	− 0·40	27	+ 8	39	+11
10. IRELAND, SOUTH	53	23	47·9	36·5	42·0	− 6·1	16	− 33	15	+10	4	0	0·57	− 0·32	35	+ 14	50	+20
11. ENGLISH CHANNEL	58	36	53·4	46·5	49·8	− 2·5	55	− 17	0	0	6	+ 1	2·53	+1·61	23	− 1	32	− 2

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 8 Weeks, September 5th to October 30th, 1909.

0. SCOTLAND, NORTH	68	20	*	*	*	*	394	− 32	36	+ 4	39	0	9·07	− 0·06	191	+ 27	30	+ 4
Eastern																		
1. SCOTLAND, EAST	70	18	*	*	*	*	397	− 60	40	0	37	+ 5	6·32	+1·31	185	− 7	29	− 1
2. ENGLAND, N.E.	70	27	*	*	*	*	546	+ 8	22	+ 6	37	+ 8	4·32	− 0·15	171	− 42	26	− 7
3. ENGLAND, EAST	74	28	*	*	*	*	654	+ 39	11	− 9	38	+10	§5·40	+1·10	180	− 56	28	− 9
4. MIDLAND COUNTIES	71	26	*	*	*	*	576	+ 15	23	− 4	40	+12	5·72	+1·23	169	− 40	26	− 6
5. ENGLAND, S.E.	71	25	*	*	*	*	699	+ 19	8	− 5	40	+13	9·34	+4·32	199	− 42	31	− 6
Western																		
6. SCOTLAND, WEST	70	21	*	*	*	*	495	− 10	37	+15	33	+ 1	9·61	+1·38	181	− 15	28	− 2
7. ENGLAND, N.W.	69	23	*	*	*	*	556	− 16	23	+12	34	+ 4	8·29	+1·96	190	− 9	29	− 1
8. ENGLAND, S.W.	72	24	*	*	*	*	654	+ 11	7	− 2	39	+ 8	9·43	+2·50	212	− 17	33	− 3
9. IRELAND, NORTH	68	22	*	*	*	*	531	+ 2	26	+12	37	+ 1	7·94	+1·53	192	+ 5	30	+ 1
10. IRELAND, SOUTH	72	23	*	*	*	*	616	+ 18	15	+ 3	41	+10	7·78	+1·70	226	+ 7	35	+ 1
11. ENGLISH CHANNEL	74	36	*	*	*	*	853	+ 45	0	0	39	+ 5	7·80	+1·84	248	− 34	38	− 5

THE YEAR.—Aggregates, &c., for the Period of 43 Weeks, January 3rd to October 30th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1822	−158	571	− 18	203	+ 4	34·63	− 5·91	1072	+ 24	27	+ 1
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	1992	−235	713	+ 53	174	+ 9	27·78	+3·20	1204	− 40	31	− 1
2. ENGLAND, N.E.	85	14	*	*	*	*	2469	− 19	602	+111	159	+10	22·32	+2·39	1286	− 62	33	− 2
3. ENGLAND, EAST	85	12	*	*	*	*	2751	−124	565	+ 24	151	+17	§20·68	+1·47	1479	+ 15	38	0
4. MIDLAND COUNTIES	86	8	*	*	*	*	2671	−126	665	+105	155	+12	22·72	+1·47	1388	+ 31	34	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	2880	−219	490	+ 96	153	+16	26·71	+5·58	1581	+ 97	41	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2276	−132	482	+ 35	167	− 5	38·61	+1·53	1308	+ 31	33	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2480	−159	489	+ 92	163	+ 5	29·86	+2·32	1391	+ 95	36	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2766	−169	397	+ 87	163	+ 7	29·77	+0·19	1544	+ 97	40	+ 3
9. IRELAND, NORTH	78	14	*	*	*	*	2448	− 68	341	− 18	192	+ 4	29·69	− 0·58	1156	− 23	30	− 1
10. IRELAND, SOUTH	81	15	*	*	*	*	2859	− 25	280	+ 9	180	+14	28·81	− 2·45	1351	+ 24	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	3413	+ 19	151	+ 42	150	−17	23·67	− 0·97	1835	+ 76	48	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding value for last week altered owing to further information.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked Ⓜ is supplied by the Royal Meteorological Society, and that for Stations marked Ⓢ is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				
		Highest observed.	Date.	Lowest observed	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	NAMES OF STATIONS.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*50*	*24th*	*33*	*27th*	*44·3*	*36·9*	*40·0*	—	*6*	*22*	7	*1·17*	—	*15·1*		*24*	—	*Balta Sound.*
	a Sumburgh Head	46	24th, 27th	32	27th	43·4	36·3	39·8	- 5·2	4	21	7	0·80	- 0·16	31·7	+15·2	49	+23	Deerness.
	a Stornoway	47	25th	33	27th, 28th	44·3	35·4	39·7	- 5·4	6	24	7	0·96	- 0·37	33·6	+16·6	51	+25	Stornoway.
	a Castlebay, Barra Isd.	*48*	*25th*	*35*	*30th*	*46·0*	*38·6*	*42·2*	*- 5·0*	*16*	*10*	*5*	*0·45*	—	*41·5*	—	*62*	—	*Castlebay.*
	a Wick	48	24th	27	27th	45·1	32·1	38·4	- 6·7	9	35	6	0·31	- 0·41	*	*	*	*	*
	p Strathpeffer	50	24th	29	27th, 29th	43·1	31·6	37·2	- 7·0	3	36	2	0·58	- 0·07	28·5	+10·1	43	+15	Strathpeffer.
	p Glencarron S	45	24th, 25th	25	28th	42·5	29·6	35·9	- 7·5	1	43	5	1·06	- 1·07	*	*	*	*	*
	p Fort Augustus S	49	24th, 25th	20	28th	44·9	28·3	36·4	- 8·4	8	49	2	0·03	- 0·94	27·2	+14·8	41	+22	Fort Augustus.
	p Fort William S	49	24th, 25th	24	28th	45·0	29·5	37·0	- 8·7	8	44	2	0·02	- 1·75	*	*	*	*	*
1. SCOTLAND E.	*p* Gordon Castle S	48	24th	28	29th	44·6	30·7	37·4	- 7·8	7	40	6	1·36	+ 0·59	*21·8*	—	*33*	—	*Gordon Castle.*
	a Nairn	47	24th	29	27, 28, 30th	44·0	31·4	37·5	- 7·4	6	37	5	0·89	+ 0·36	30·6	—	46	—	Nairn.
	a Aberdeen	48	24th	31	27th	44·9	34·6	39·6	- 5·9	8	27	5	0·25	- 0·42	35·6	+15·3	53	+23	Aberdeen.
	a Balmoral			18	28th		26·3					2	0·11	- 0·77	29·1		43	—	Crathes S.
	p Crieff S	48	24th, 25th	25	26th	44·7	29·4	36·8	- 8·5	8	44	0	0·00	- 0·92	39·2		59	—	Balruddery
	a Leith S	50	24th	31	29th, 30th	45·0	34·9	39·8	- 7·1	8	26	3	0·04	- 0·43	26·4	+ 2·9	39	+15	Edinburgh.
	a West Linton S	45	24th, 25th	22	29th, 30th	41·2	28·1	34·5	- 9·1	0	53	4	0·22	—	*26·6*		*39*	—	*West Linton.*
	p Marchmont S	51	24th	28	30th	44·4	32·0	38·0	- 6·1	7	35	3	0·23	- 0·60	26·3	+13·8	39	+20	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle	48	24th, 25th	30	30th	45·7	35·1	40·2	- 5·6	10	25	4	0·62	- 0·23	27·0	—	40	—	Cockle Park.
	a Shields	49	24th, 25th	29	30th	45·7	35·4	40·4	- 6·4	10	25	5	0·73	+ 0·05	*18·2*	+ *4·2*	*27*	+ 6	*Newcastle.*
	p Durham	49	24th, 25th	27	30th	45·1	33·0	38·9	- 6·6	9	33	5	0·61	- 0·11	26·8	+ 8·4	39	+12	Durham.
	p Rounton M	49	24th, 25th	27	26th, 30th	46·0	33·5	39·6	- 5·3	11	32	5	1·12	+ 0·39	*	*	*	*	*
	p Scarborough M	59	24th	35	30th	50·4	39·4	44·7	- 2·7	30	7	2	0·39	- 0·36	27·0	—	39	—	Scarborough.
	p York	51	25th	29	26th	47·6	35·5	41·4	- 5·1	16	26	4	0·22	- 0·36	25·6	+ 8·6	37	+13	York.
	a Spurn Head	51	24th	38	30th	47·6	41·4	44·4	- 4·0	19	2	4	0·65	+ 0·12	*	*	*	*	*
	a Lincoln	51	24th	29	26th	46·3	36·5	41·3	- 5·3	12	22	6	0·31	- 0·24	17·0	—	25	—	Skegness.
	a Fulbeck	49	24th	31	26th	46·5	36·6	41·4	- 4·9	13	21	4	0·36	- 0·19	16·1	—	23	—	Rauceby.
															15·9	—	*23*	—	*Lowestoft.*
3. ENGLAND, E.	*p* Cromer	—	—	—	—	—	—	—	—	—	—	5	1·29	—	8·5	—	12	—	Cromer.
	p Hillington M	56	24th	28	26th	47·2	37·3	42·1	- 4·7	20	13	7	1·96	+ 1·28	8·4	- 10·9	12	- 16	Hillington.
	a Yarmouth	52	24th	33	30th	48·1	39·3	43·6	- 4·4	23	8	6	2·00	+ 1·32	17·7	—	26	—	Yarmouth.
	a Norwich	52	24th	29	26th	47·8	38·2	42·9	- 3·5	22	11	6	1·92	—	*	*	*	*	*
	p Geldeston	58	24th	28	26th	49·3	37·1	43·0	- 4·7	28	14	6	2·66	+ 2·01	12·7	- 8·9	18	- 13	Geldeston.
	p Cambridge	57	24th	29	26th, 30th	48·0	35·5	41·6	- 5·5	17	26	5	1·29	+ 0·76	13·4	- 8·0	19	- 12	Cambridge.
	a Felixstowe	*55*	*24th*	*33*	*26th, 30th*	*48·9*	*40·7*	*44·7*	*- 4·2*	*24*	*4*	*4*	*2·41*	—	*17·8*		*25*	—	*Felixstowe.*
	a Clacton-on-Sea	54	24th	31	30th	47·9	40·7	44·2	- 4·7	21	4	4	1·94	—	16·9	—	24	—	Clacton.
	a Rothamsted	54	24th	29	26th	46·2	37·3	41·6	- 4·5	12	18	7	1·75	+ 1·08	15·8	- 5·9	23	- 8	Rothamsted.
	a Shoeburyness	*55*	*24th*	*32*	*30th*	*48·1*	*40·4*	*44·1*	*- 5·1*	*21*	*4*	*7*	*3·76*	+ *3·30*	*15·4*	—	*22*	—	*Southend.*
	p Tottenham	55	24th	31	30th	47·4	38·9	43·0	- 4·7	20	9	4	1·82	—	15·9	—	23	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	51	24th	29	26th, 30th	45·8	33·6	39·5	- 6·2	11	31	3	0·17	- 0·57	30·9	—	45	—	Harrogate.
	a Bawtry	52	24th	26	26th	46·7	34·6	40·5	- 5·5	13	28	4	0·07	- 0·45	19·7	+ 2·6	29	+ 4	Worksop.
	p Buxton M	*47*	*24th*	*28*	*26th*	*43·2*	*33·1*	*38·0*	*- 5·7*	*3*	*31*	*4*	*1·20*	*- 0·03*	*26·9*	—	*39*	—	*Buxton.*
	a Nottingham	52	24th	29	26th	46·9	36·7	41·7	- 5·0	14	21	4	0·40	- 0·13	18·6	—	27	—	Nottingham.
	p Birmingham, Edgbsn	51	24th	33	30th	45·0	37·0	40·9	- 5·6	8	19	5	0·51	- 0·09	19·8	—	28	—	Birmingham.
	a Raunds M	53	24th	29	26th, 30th	46·8	36·3	41·4	- 5·1	13	22	6	1·37	—	*	*	*	*	*
	a Oxford	54	24th	30	30th	47·3	38·6	42·8	- 4·4	20	10	4	0·95	+ 0·35	21·3	+ 0·9	30	+ 1	Oxford.
	a Cheadle M	51	24th	31	27th, 29th	44·6	33·7	39·0	- 6·2	7	30	3	0·82	+ 0·12	23·1	—	34	—	Sheffield.
	p Shrewsbury	51	24th	29	30th	47·5	34·7	40·9	- 6·0	15	28	3	0·10	—	*	*	*	*	*
	a Hereford M	53	24th	30	30th	46·9	36·4	41·5	- 5·5	14	22	4	0·67	+ 0·08	*	*	*	*	*
	a Cirencester	52	24th	29	26th, 30th	45·8	35·9	40·7	- 5·0	11	23	6	0·67	- 0·01	21·3	+ 0·9	30	+ 1	Cirencester.
	a Bath	54	24th	29	30th	48·3	38·9	43·5	- 4·7	24	9	4	1·37	+ 0·70	27·9	—	40	—	Bath.
															17·4	—	*25*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	55	24th	30	30th	47·8	37·0	42·2	- 5·3	22	14	4	1·83	+ 1·23	17·9	- 0·8	26	- 1	Kew.
	a Marlborough	54	24th	25	30th	46·8	36·4	41·5	- 4·1	13	22	5	1·07	+ 0·30	17·6	- 2·1	25	- 3	Marlborough.
	a Margate	55	24th	35	30th	51·6	42·0	46·7	- 2·7	33	0	6	5·68	+ 5·05	12·6	- 9·2	18	- 13	Margate.
	a Wisley, Surrey	53	24th	29	30th	46·7	38·8	42·6	- 5·7	18	9	5	1·91	—	19·2	—	27	—	Wisley.
	a Swarraton	52	24th	25	30th	46·1	37·2	41·5	- 5·0	11	19	5	2·68	+ 1·88	24·7	—	35	—	Worthing.
	a Tunbridge Wells M	53	24th	27	30th	46·6	37·8	42·1	- 5·3	18	12	6	3·24	+ 2·43	15·9	- 5·9	23	- 8	Tunbridge Wells.
	a Dungeness	61	24th	29	30th	51·7	40·6	46·0	- 4·2	34	4	5	3·79	+ 3·19	21·4	—	31	—	Littlestone.
	p Hastings	58	24th	32	30th	50·5	39·8	45·0	- 4·9	30	6	6	2·90	+ 2·07	*23·9*	*- 0·4*	*34*	*- 1*	*Hastings.*
	p Southampton	58	24th	29	30th	49·3	37·8	43·4	- 5·9	27	12	5	3·87	+ 3·05	21·5	- 1·0	31	- 1	Southampton.
	a Ventnor	56	24th	33	30th	49·8	42·3	45·9	- 5·2	27	0	6	4·01	+ 3·47	27·4	+ 2·7	39	+ 4	Ventnor.
LONDON	*a Westminster*	*57*	*24th*	*29*	*30th*	*49·0*	*39·4*	*44·1*	*- 3·3*	*26*	*7*	*6*	*2·01*	+ *1·42*	*13·4*	*- 0·2*	*19*	*0*	*Westminster.*
	a Greenwich	*55*	*24th*	*28*	*30th*	*47·7*	*38·8*	*43·1*	*- 4·5*	*21*	*9*	*5*	*1·88*	+ *1·32*	*13·9*	*- 4·2*	*20*	*- 6*	*Greenwich.*
6.	*p* Laudale														*	*	*	*	*
	a Poltalloch S	52	24th	23	28th	46·6	29·1	37·6	- 8·9	13	47	2	0·32	- 0·84	*	*	*	*	*
	p Glasgow S	49	24th	30	29th, 30th	43·7	33·6	38·5	- 6·8	5	30	1	0·01	- 0·77	32·6	+19·0	48	+28	Glasgow.
	p Rothesay S	51	25th	29	30th	45·7	32·7	39·0	- 7·5	10	34	2	0·42	- 0·56	*	*	*	*	*
	a Kilmarnock	48	24th, 25th	21	29th	44·0	28·3	35·9	- 9·9	6	48	2	0·13	—	*22·3*	—	*34*	—	*Kilmarnock.*
	a Colmonell S	53	25th	22	29th	47·3	32·6	39·7	- 6·3	15	35	3	0·48	- 0·60	*	*	*	*	*
	p Dumfries S	54	24th	25	30th	46·9	32·4	39·4	- 6·7	14	35	2	0·36	- 0·49	*29·5*	*	*43*	—	*Dumfries.*
	p Cally, Gatehouse S	55	25th	24	30th	48·3	29·3	38·5	- 7·4	18	47	2	0·55	- 0·59	*	*	*	*	*
	p Douglas	56	24th	33	29th	46·8	36·2	41·3	- 6·2	13	22	3	0·08	- 0·98	43·2	+22·2	63	+32	Douglas.
															26·6	—	39	—	Hoylake.
7.	*p* Aspatria	50	25th	24	29th	45·5	31·2	38·1	- 7·8	10	39	2	0·28	- 0·65	38·7	—	57	—	Aspatria.
	p Newton Rigg	51	24th	23	30th	46·0	29·8	37·7	- 6·9	11	44	2	0·35	- 0·52	31·5	+14·3	46	+21	Newton Rigg.
	p Stonyhurst	49	24th	29	30th	44·6	34·9	39·3	- 6·3	6	25	2	0·38	- 0·69	29·5	+12·1	43	+18	Stonyhurst.
	p Blackpool M	54	24th	28	30th	47·0	35·5	41·1	- 6·4	14	25	2	0·42	- 0·45	30·1	+11·6	44	+17	Blackpool.
	p M nch'ster, Prestwich	51	24th	30	30th	46·0	35·3	40·5	- 5·5	11	25	2	0·64	- 0·23	*23·6*	*+10·5*	*34*	*+15*	*Prestwich.*
	a Liverpool (Bidston)	50	24th	36	28, 29, 30th	46·0	39·0	42·4	- 5·7	15	8	4	0·30	- 0·45	*29·9*	—	*43*	—	*Liverpool.*
	a Hawarden Bridge	52	24th	34	26, 28, 30th	45·8	37·3	41·4	- 6·9	11	18	2	0·45	- 0·22	*30·6*	*+13·0*	*44*	*+19*	*Southport.*
															25·2	—	*36*	—	*Rhyl.*
	p Llandudno M	51	24th, 25th	35	30th	48·0	39·9	43·8	- 5·7	21	6	3	0·30	- 0·54	22·2	+ 4·5	32	+ 7	Llandudno.
	a Holyhead	50	24th, 25th	38	30th	47·7	40·6	44·1	- 5·4	21	4	2	0·23	- 0·67	23·4	—	33	—	Aberdovey.
	p Bettws-y-Coed	53	24th	30	29th, 30th	46·0	35·6	40·7	- 7·9	11	25	4	0·88	—	22·2	—	32	—	Bettws-y-Coed.
															23·3	—	33	—	Aberystwyth.
8.	*a* Llangammarch Wells	50	24th	24	30th	45·3	33·5	39·2	- 6·3	9	31	3	0·88	—	25·2	—	36	—	Llangammarch Wells.
	a Pembroke	52	24th	36	30th	48·9	42·1	45·4	- 5·0	24	0	5	0·68	- 0·21	30·1	+ 8·9	43	+13	Pembroke.
	a Cardiff	53	24th	31	30th	47·5	36·8	42·0	- 5·2	15	15	4	1·44	+ 0·40	*30·8*	—	*44*	—	*Cardiff.*
															28·6	+ *6·6*	*41*	*+10*	*Tenby.*
	a Clifton	52	24th	32	30th	47·6	40·0	43·7	- 4·0	20	6	3	0·90	+ 0·07	*27·4*	—	*39*	—	*Clifton.*
	a Shaftesbury M	50	24th, 25th	31	30th	44·9	37·9	41·3	- 6·0	8	16	5	3·11	+ 2·30	*	*	*	*	*
	a Arlington	52	25th	31	30th	47·3	38·7	42·9	- 4·5	20	9	6	1·89	+ 0·32	30·4	+ 7·1	43	+10	Newquay.
	a Cullompton M	56	25th	25	30th	49·6	37·7	43·5	- 4·5	29	12	5	1·82	+ 0·96	21·7	+ 2·4	31	+ 8	Cullompton.
	a Portland Bill	56	26th	36	30th	49·9	42·9	46·3	- 4·7	30	0	6	2·26	—	*31·4*	—	*45*	—	*Weymouth.*
	p Plymouth	59	26th	31	30th	51·8	41·4	46·5	- 3·8	34	2	4	1·61	+ 0·75	32·2	+ 9·6	46	+14	Plymouth.
	p Falmouth	57	26th	37	30th	50·7	42·7	46·6	- 4·1	32	0	6	2·26	+ 1·16	29·7	+ 4·8	42	+ 7	Falmouth.
															33·6	*+19·1*	*47*	*+15*	*Torquay.*
9. IRELAND, N.	*a* Malin Head	49	25th	36	30th	45·4	39·9	42·6	- 5·3	13	6	5	0·79	+ 0·06	*	*	*	*	*
	a Blacksod Point	50	24th, 25th	31	29th	46·9	38·0	42·3	- 6·8	19	11	4	0·69	- 0·49	*	*	*	*	*
	p Markree Castle	52	25th	22	28th, 29th	47·6	29·8	38·4	- 7·9	16	45	3	0·57	- 0·38	25·8	+ 7·6	37	+11	Markree Castle.
	a Birr Castle	50	25th	24	29th	47·0	32·0	39·3	- 6·8	14	37	2	0·09	- 0·56	*35·4*	*+15·0*	*51*	*+22*	*Birr Castle.*
	p Armagh	50	25th	26	29th	45·9	32·1	38·8	- 7·5	11	36	3	0·14	- 0·49	28·1	+ 9·1	41	+13	Armagh.
	a Donaghadee	50	25th	33	30th	46·9	39·3	43·0	- 4·8	18	8	4	0·43	- 0·23	*	*	*	*	*
10. IRELAND, S.	*p* Dublin, City	50	25th	30	29th, 30th	47·1	36·9	41·9	- 6·4	14	21	4	0·10	- 0·50	33·7	+11·1	49	+16	Phœnix Park.
	a Kilkenny	51	24th, 25th	23	30th	46·9	34·1	40·3	- 6·6	14	30	5	0·51	- 0·16	*	*	*	*	*
	a Waterford	52	24th	27	30th	48·6	37·0	42·6	- 5·6	25	14	4	1·09	+ 0·26	*	*	*	*	*
	a Birr Castle	50	25th	24	29th	47·0	32·0	39·3	- 6·8	14	37	2	0·09	- 0·56	35·4	+15·0	51	+22	Birr Castle.
	a Foynes	52	25th	28	29th	47·7	36·2	41·8	- 6·6	16	23	7	0·74	- 0·11	*	*	*	*	*
	a Cahir M	53	25th	24	30th	47·1	36·1	41·4	- 6·6	14	23	3	0·64	—	*	*	*	*	*
	a Killarney	53	25th	25	29th	49·1	36·0	42·4	- 6·1	28	17	7	0·62	- 0·62	*	*	*	*	*
	a Valencia	52	24th, 25th	31	29th	49·3	38·7	43·8	- 6·6	26	9	4	0·60	- 0·63	31·6	+10·1	45	+14	Valencia.
	a Roche's Point	51	25th	35	29th	48·6	41·1	44·7	- 5·3	23	3	4	0·74	- 0·18	38·5	—	55	—	Ballinacurra.
11. ENGLISH CHANNEL	*a* Scilly, St. Mary's	56	24, 25, 26th	44	29th, 30th	53·1	47·7	50·3	- 2·3	58	0	5	1·62	+ 0·82	26·7	+ 2·5	38	+ 4	Scilly.
	a Jersey, St. Aubins	58	24th	36	30th	54·1	45·4	49·6	- 3·0	53	0	7	3·61	+ 2·58	15·6	- 10·3	22	- 17	St. Heliers.
	a Guernsey	56	24, 25, 26th	40	30th	53·0	46·4	49·6	- 2·9	53	0	6	2·35	+ 1·30	26·3	+ 3·5	37	+ 5	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 22·7 hrs.* (- *1·7 hrs.*), *32* % (- *3* %); *Bournemouth, 25·6 hrs., 37* %; *Bognor, 27·6 hrs., 39* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	42·6	—
	— —				
	— —				
1.	Aberdeen	—	—	—	49·0
	Crathes	5	16	45·3	49·9
	Balmoral	5	16	—	—
	West Linton	6	13	—	—
	Marchmont	6	24	42·9	—
2.	Cockle Park	4	25	40·0	47·9
	Durham	3	23	—	—
	York	—	—	48·9	52·6
	Hull	3	25	46·0	52·1
	Lincoln	—	—	46·8	52·5
	Rauceby	1	29	48·2	53·3
3.	Norwich	4	21	—	—
	Yarmouth	—	—	48·4	54·0
	Lowestoft	1	30	49·0	54·2
	Cambridge	3	17	49·1	54·6
	Clacton-on-Sea	2	25	51·1	55·7
	Southend	1	26	50·1	—
	Tottenham	2	30	—	55·5
4.	Harrogate	3	22	46·6	49·6
	Huddersfield	2	24	46·5	51·3
	Buxton	5	22	45·6	50·8
	Sheffield	5	20	46·9	51·9
	Nottingham	2	27	45·7	52·5
	Birmingham	4	24	45·6	51·3
	Oxford	3	23	—	—
	Hereford	4	19	—	—
	Cirencester	?	?	—	—
5.	Margate	6	32	50·5	53·7
	Greenwich	2	22	—	—
	Westminster	2	26	—	—
	Kew	2	22	49·4	54·7
	Canterbury	4	25	—	—
	Tunbridge Wells	2	22	49·3	—
	Wisley	2	22	48·6	54·4
	Worthing	1	24	50·1	55·7
	Portsmouth	2	22	50·0	56·0
6.	Glasgow	6	18	—	—
	Rothesay	—	—	—	50·0
	Colmonell	5	18	—	—
	Dumfries	5	21	43·6	50·9
	Douglas	3	24	—	—
7.	Aspatria	6	15	—	—
	Newton Rigg	6	15	45·7	50·3
	Burnley	6	18	44·9	50·8
	Southport	3	18	45·4	52·1
	Manchester City	3	24	47·1	53·6
	Bettws-y-Coed	2	26	46·1	51·7
8.	Llangammarch Wells	3	19	47·8	52·7
	Cardiff	3	22	48·1	54·0
	Clifton	1	27	—	—
	Bath	—	—	51·3	56·0
	Plymouth	2	17	51·7	—
9.	Armagh	5	21	47·2	52·2
	Markree	5	16	46·5	53·2
10.	Dublin, Trin. Coll.	4	18	47·6	52·5
11.	Guernsey, Brooklyn	0	31	52·7	57·1

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	50	48	49·1
	Kirkwall	49	42	45·0
	Wick	51	50	50·4
SCOTLAND, E.	Cromarty	50	44	47·2
	Pennan Bay	50	42	45·9
	Aberdeen, Cove Bay	52	46	48·9
ENGLAND, N.E.	Burnmouth, Berwick	51	45	48·2
	Scarborough	53	48	49·7
ENGLAND, E.	Shipwash Lightship	58	49	52·2
	Margate‡	57	50	53·4
ENGLAND, S.E.	Eastbourne‡	58	51	47·9
SCOTLAND, W.	Lamlash	56	48	48·9
	Ballantrae	52	49	50·3
ENGLAND, N.W.	Port Erin	54	51	51·7
ENGLAND, S.W.	Newquay	58	56	57·4
	Plymouth‡	58	55	56·1
	Salcombe	57	50	54·7
IRELAND, N.W.	Sheephaven	52	48	49·9
	Teelin	52	48	49·6
IRELAND, S.W.	Cleggan	54	45	49·1
	Seafield	55	48	51·4
IRELAND, E.				

‡ Only one observation each day.

VII.—*Continued* from p. 352.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
13	Oct. 28th, 8.57 a.m. to 9.38 a.m.	Howard Estate, Glossop, 335 m.	Temperature	275°	274°	**273°**	**267°**				**266°**	1,140	Fair to fine, with moderate breeze. Clouds, Cu.
			Humidity	82%	82%	84%	82%				76°/,		
			Wind	23°, 6	26°, 8	28°, 9	50°, 19				57°, 21		
14	Oct. 28th, 2.40 p.m. to 3.40 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature	279·5°	278·5°	274·5°	?				?	1,350	Clear. Very steady wind. Very dry, so that pens failed to write well above 750 m. Lowest temp., 72°.
			Humidity	60%	60%	60%	20%				?		
			Wind	315°, 6	315°, 9	330°, 11	340,° 11				340°, 12		
15	Oct 29th, 12.50 p.m. to 2.12 p.m.	Howard Estate, Glossop, 335 m.	Temperature	275·6°	275°	274·3°	**269°**				**268°**	1,150	Fair to fine, with light breeze. Clouds, Cu. and Str.
			Humidity	69%	69%	69%	69%				69%		
			Wind	315°, 3	315°, 7	315°, 9	314°, 10				313°, 12		

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
No. of Kites	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Area of Surface (sq. metres)	7·6	7·6	7·6	7·6	7·6	7·6	5	7	—	—	4	6·2	7·6	7	7·6
Capacity of Balloon (cub. metres)	—	—	—	—	—	—	—	—	2·7	2·7	—	—	—	—	—
Length of Wire (metres)	2,500	1,400	3,000	3,000	1,200	2,000	1,800	1,400	—	—	500	—	—	1,050	—

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

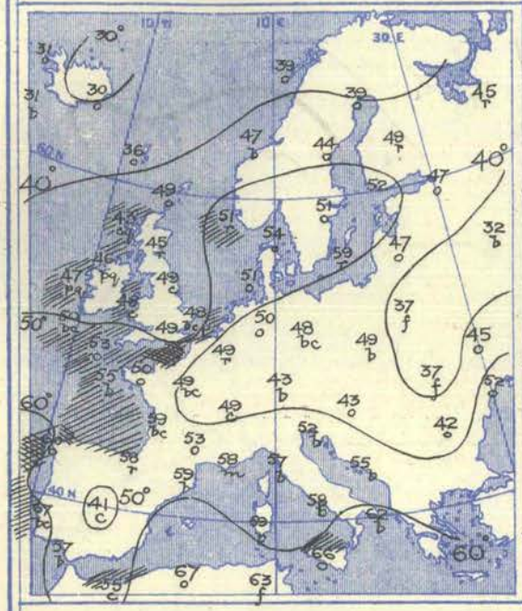
The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

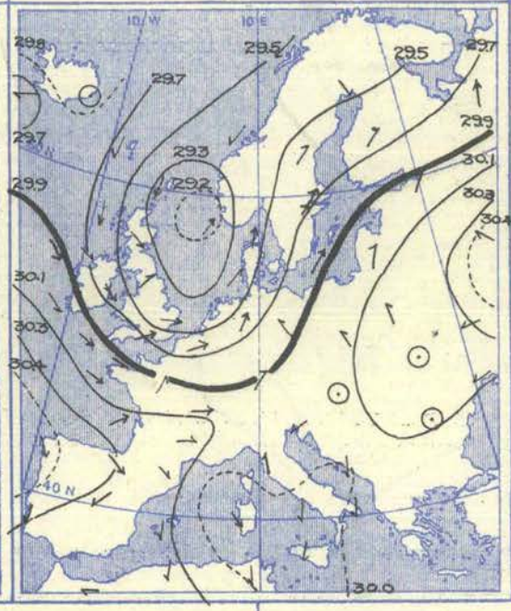
Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4.

Sunday, 24th October, 1909.

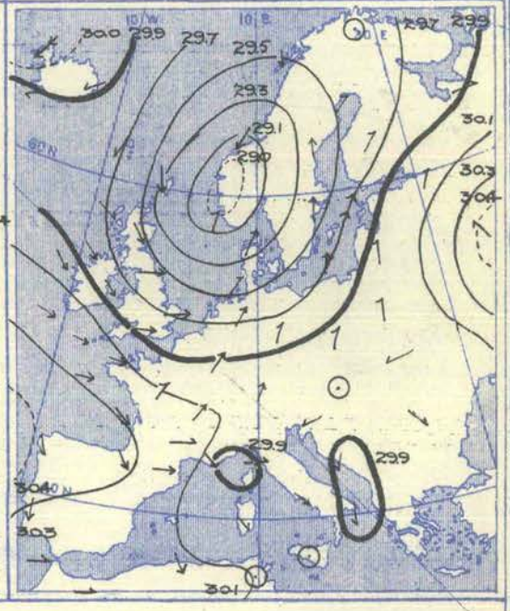
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning generally unsettled over these Islands and the north-western countries of the Continent, with rain in places in the west and north of this country, the Netherlands, and Scandinavia, but with little cloud over the south of England. Fair to very fine over most of Russia and southern Europe, but rain falling in the south-west of France and also at Bucharest. Slight rain later in most parts of the United Kingdom and the surrounding regions, heavier amounts in Scandinavia, as well as in the south of Russia. Thunder heard at Paris.

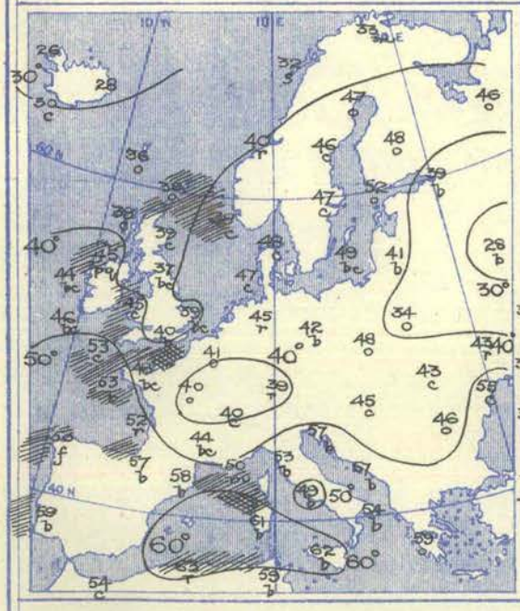
Temperature fallen over this country, Italy, and Austria-Hungary, risen or changed little elsewhere. Morning readings below 50° over the greater portion of our area, and below 40° in the far north and in central Russia; above 60° at most stations in the extreme south, and as high as 71° at Palma. Maxima during day below 55° in most parts of this country, and below 50° at some of the northern stations. Slightly below 60° over the central regions of Europe, but about 70° at many places in the far south, and as high as 82° at Tunis.

Wind in morning showing a vast cyclonic circulation affecting all the north-west part of our area. North-Westerly and Westerly currents strong to a gale over these Islands and the Channel, and the Southerly current fresh to high over Scandinavia and the Baltic. Light or moderate winds, mainly from the Northward, prevailing over the Mediterranean and Italy. Little change occurring during day; increasing to a gale in the Skager Rack and the Gulf of Finland.

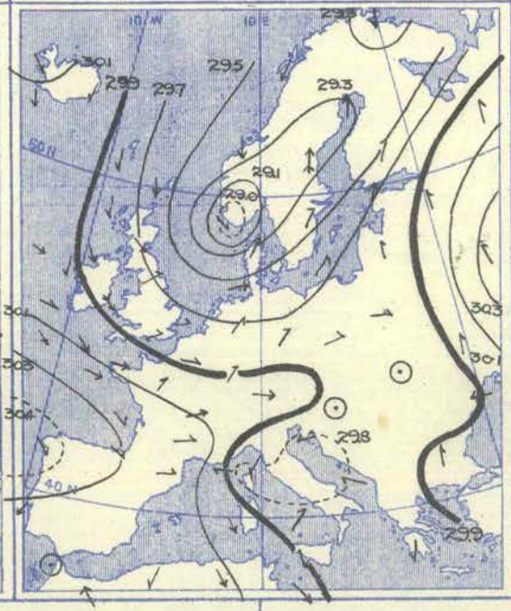
Barometer in morning ranging from above 30·4 ins. in central Russia and also over the north and west of the Spanish Peninsula to below 30·0 ins. over a considerable portion of the Mediterranean, and to below 29·2 ins. in a large system centred near Skudesnaes. Latter disturbance growing deeper during day without changing its position, and barometer falling over Italy and the adjacent regions. Gradient increasing over the North Sea and northern Europe generally.

Monday, 25th October, 1909.

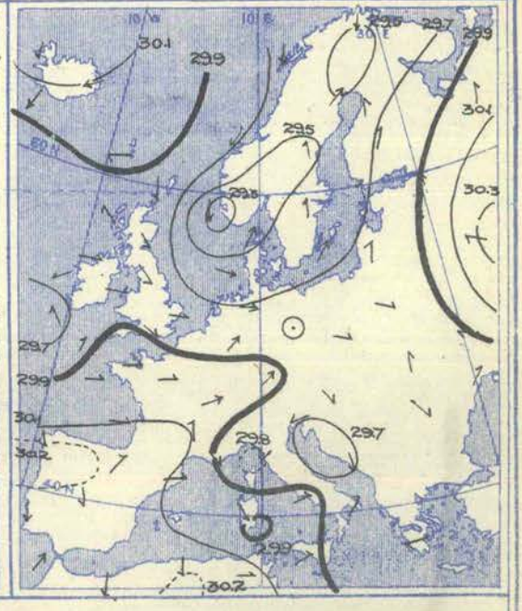
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled, with much cloud and rain in places over a wide area in the United Kingdom and the more northern countries of the Continent, and also at some stations in France and South Germany. Mostly fair to fine over the Mediterranean region, but rainy at Algiers. More or less rain experienced later over the greater part of our area; amounts not heavy generally, but an inch at Lesina.

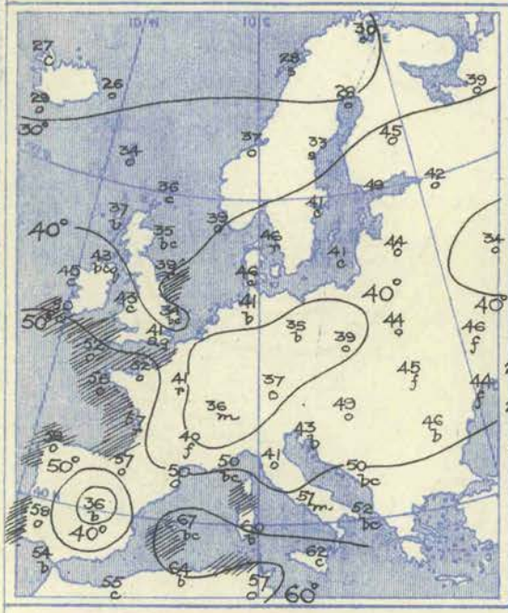
Temperature fallen in most regions. Readings in morning about 40° in these Islands, and also over a large portion of France; above 60° at some stations in the far south; below 35° in various places in Poland and the far north, and below 32° in central Russia. Maxima during day less than 50° in many parts of these Islands as well as in various parts of central Europe, and less than 70° at most stations in the south, but as high as 75° at San Fernando and 81° at Tunis. Minima at night low over central England and in Scotland, below 32° in places.

Wind in morning circulating cyclonically over the whole of northern and north-western Europe, strong to a gale from North-West in these Islands and from various quarters in Scandinavia; fresh to high winds from the North-Westward prevailing over the western part of the Mediterranean. Backing to the South-Eastward during day on our south-west coasts, and decreasing to a light or moderate breeze over this country generally. Little change elsewhere.

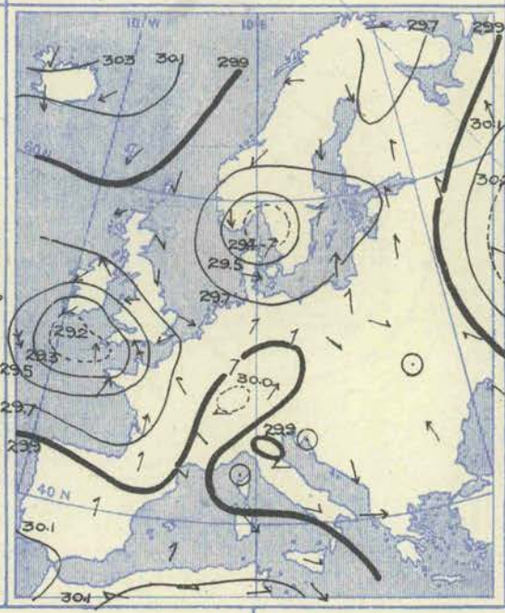
Barometer in morning above 30·4 ins. in the north-west of Spain and over the nearer portion of the ocean, and nearly as high in central Russia; below 29·0 ins. in a very large depression having its minimum in the south-west of Norway, and relatively low in a shallower system over northern Italy. Gradient steep over the North Sea region and also in the south-east of France. Northern depression becoming less deep during day, but not changing its position. A fresh and very brisk fall of the barometer setting in on the south-west coasts of these Islands, and a decided fall over the Bay of Biscay.

Tuesday, 26th October, 1909.

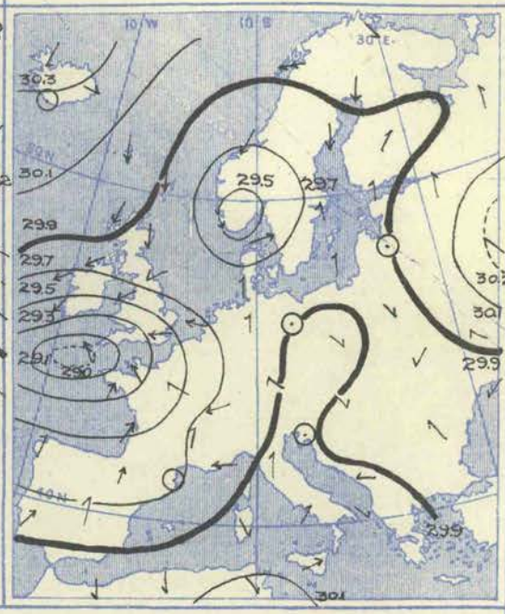
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very rainy in the south, south-west, and south-east of these Islands and the west and north of France, rain or snow falling over a large portion of Scandinavia, and rain at some stations in central Europe; fair to fine in most other regions, but foggy in various Russian localities. More than an inch of rain falling later at Jersey, Bath, and at many stations on the south and south-east coasts of England, as well as at Rochefort, Nantes, and other French stations. Heavy rains on the west coast of the Spanish Peninsula, at Buda-Pesth, Hernösand, Moscow, and Odessa.

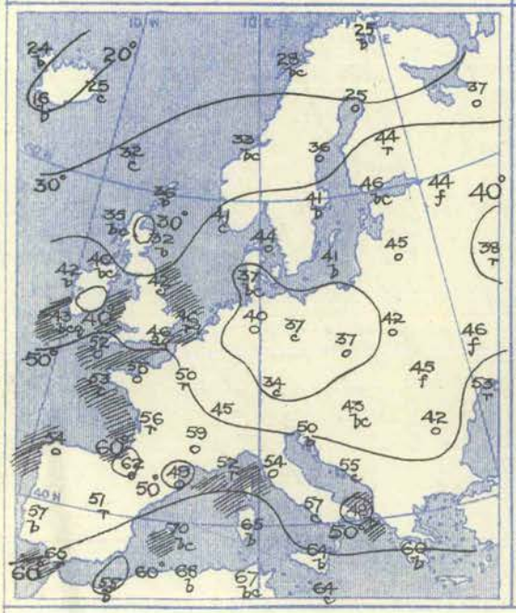
Temperature fallen over the greater part of our area. Morning readings below 40° over a considerable portion of Britain, central and northern Europe, above 50° on our extreme south-west coasts and in the west and south of France, and above 60° at some stations in the far south. Maxima during day less than 45° in many parts of Great Britain, and below 50° at several stations in the central countries. Thermometer rising to 70° or slightly higher in the extreme south of our area. Minima at night below 32° in Scotland.

Wind in morning strong from the Southward over the west of France, strong to a gale from the South-Eastward in the south of England, and strong from East in Wales and Ireland. A separate cyclonic movement of moderate to strong breezes prevailing over Denmark and Scandinavia, and moderate to strong winds, mainly from West or North-West, over the Mediterranean. Increasing from the Eastward during day over England, Wales, and Ireland, but little change of a general character.

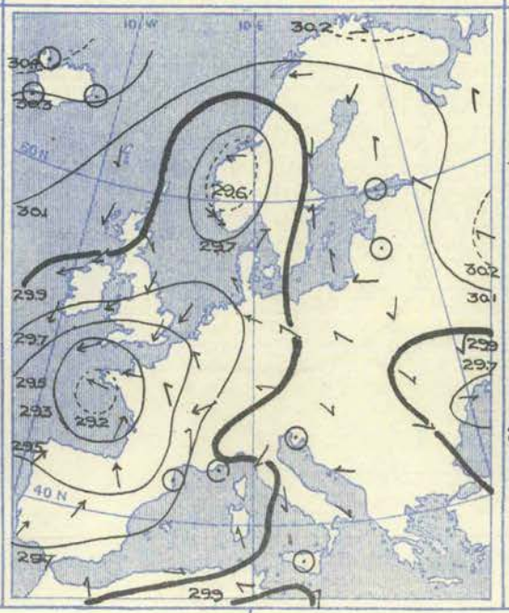
Barometer in morning below 29·2 ins. in a depression having its centre to the westward of Scilly, and less than 29·4 ins. in another system over the south of Norway; above 30·3 ins. in central Russia, and also in the north of Iceland. South-western depression moving slowly eastward during day, and that in Norway remaining almost stationary, but decreasing somewhat in intensity. Icelandic high pressure extending slowly southward.

Wednesday, 27th October, 1909.

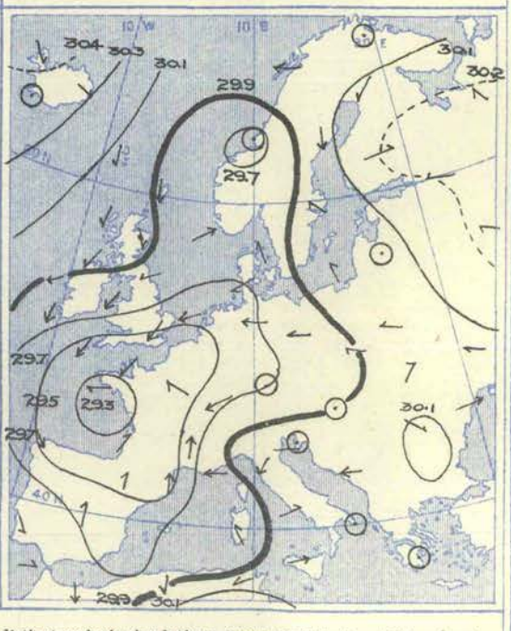
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and rainy in the south and south-east of England and the nearer regions of the Continent, and also in some parts of Spain, Finland, and Russia. Fair or fine in most other parts of our area, but overcast at several Italian stations. Considerable or heavy rain later in the south and south-east of England, more than an inch in several French localities, and various quantities over a very large portion of the Continent. A thunderstorm at Chassiron and Nice.

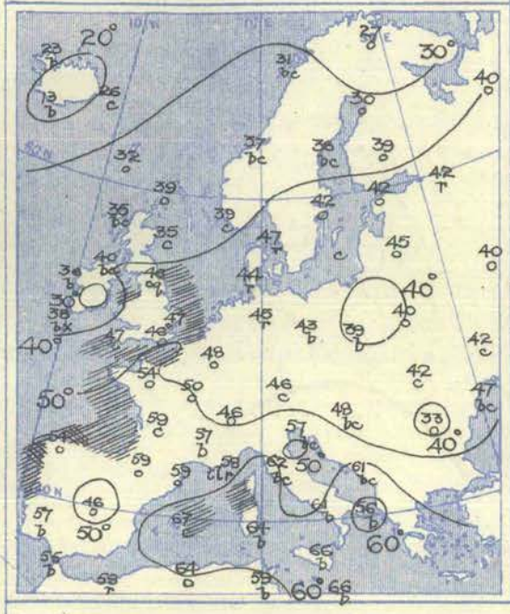
Temperature fallen in Ireland, Scotland, and in most parts of the Continent, risen in the far south. Readings in morning ranging from 70° at Palma and about 65° at some other southern stations to below 50° generally, below 40° in many central and northern localities, and to less than 32° in the north of Scotland, at Prague, and in the north of Scandinavia. Maxima during day less than 50° at most of our own stations and at many in the central countries, and below 32° at Haparanda. Thermometer rising to 70° or above very generally in the far south, and to about 80° in places. Sharp frost at night in central Ireland.

Wind in morning showing two distinct cyclonic circulations, one around the Bay of Biscay, and the other over Norway. North-Easterly current strong to high over England, and that from South high in the south-west of France. A gale from the North-Westward prevailing at Skudesnaes. Light airs from various quarters over Italy and the Adriatic. Little general change during day, but some increase in force taking place at a few stations over the Mediterranean.

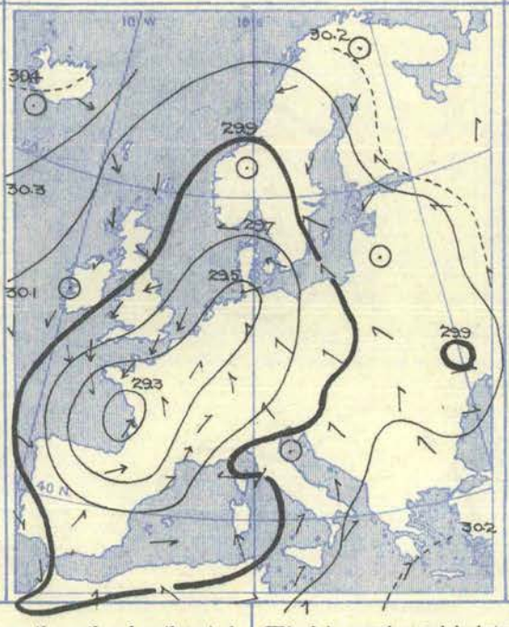
Barometer in morning below 29·2 ins. in a depression over the Bay of Biscay, and below 29·6 ins. over the west of Norway. Readings increasing to above 30·2 ins. in central Russia, and to above 30·4 ins. in the north-west of Iceland. Very little modification occurring in the general distribution during day. Gradient increasing over the Mediterranean, but decreasing a little over these Islands.

Thursday, 28th October, 1909.

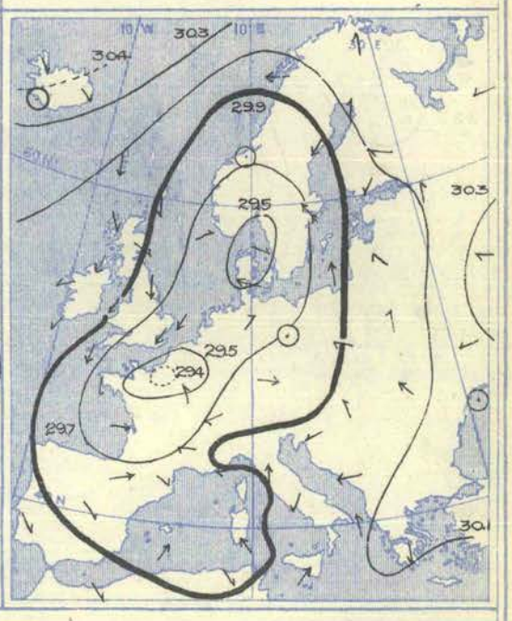
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning generally overcast, with rain in places, over the south and south-east of England, in France, the Netherlands, Denmark, and the Gulf of Finland, and also in the north of Italy; fair to fine in most other regions. Large quantities of rain later over the south and south-east of England and in the north-east of France, as much as 2·18 ins. at Dover, and 2·43 ins. at Dungeness. Heavy falls in the west, east, and south-east of France, as well as in Switzerland and the Italian lake region; a thunderstorm at Nice.

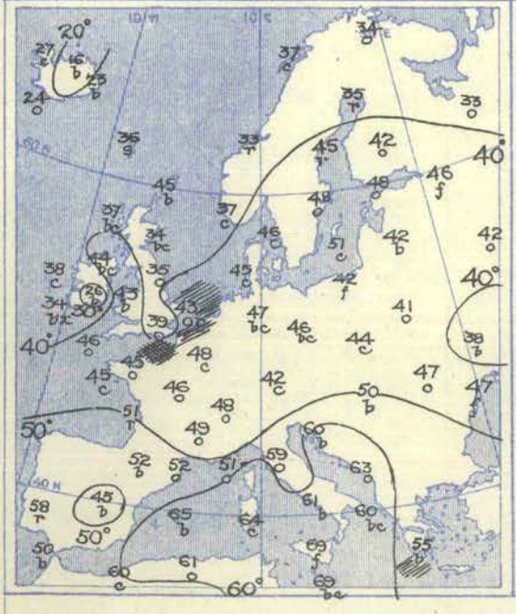
Temperature changed rather irregularly; fallen at most of our own stations. Morning readings below 32° in central Ireland, and no higher than 32° at Nairn; below 50° over a large portion of central Europe, and below 32° in the far north of the Continent; above 60° at most stations in the extreme south, and as high as 71° at Sanguinaires. Maxima during day below 50° over most of this country, and not much above it over central Europe, but about 70° at most stations in the far south of our area, 78° at Palermo, and 82° at Tunis. Frost at night in Ireland and Scotland; minimum at Birr Castle as low as 24°.

Wind in morning mainly between North and North-East over Scandinavia and the United Kingdom; fresh to strong over England generally, and blowing a gale at Portland Bill; high from the South-Westward on the south-west coast of France, and light or moderate from the South-Eastward over Germany and the Baltic. Light, and chiefly Southerly, over Italy and its vicinity. Not much change during day over our area generally, but increasing in force from the South-Eastward over the upper portion of the Baltic, and blowing a gale at Stockholm. Increasing to a gale at night on the Straits of Dover.

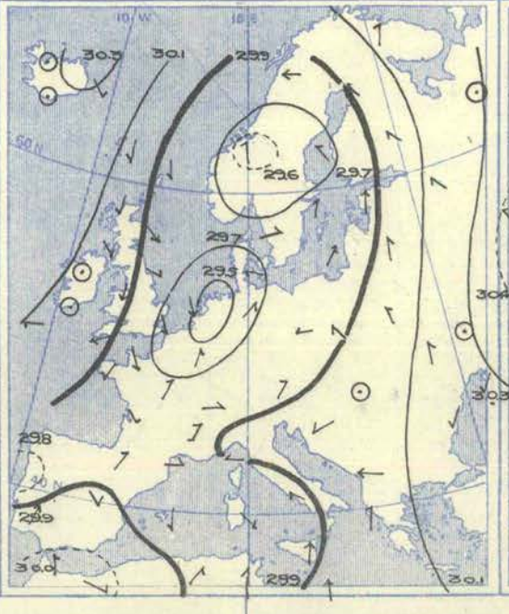
Barometer in morning above 30·4 ins. in Iceland, and above 30·2 ins. in the north-east of our area. Readings below 29·3 ins. in a depression centred over the west of France, and relatively low over the North Sea region. French disturbance moving slowly north-eastwards during day, and a separate system forming over the region of the Skager Rack. Little modification occurring in the general distribution.

Friday, 29th October, 1909.

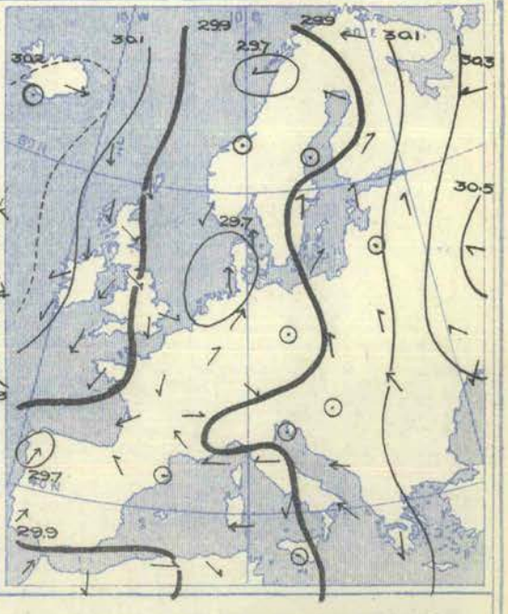
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in the south-east of England and the nearer parts of the Continent, as well as at Nottingham, but fair or fine in the north and west of these Islands. Rain falling at some stations in Scandinavia, northern Italy, and at Lisbon; fair or fine and bright in most other parts of our area. Showers falling during day in most parts of the British Islands, with hail on our western coasts and sleet in the north-east. Lightning at night at Liverpool and Holyhead.

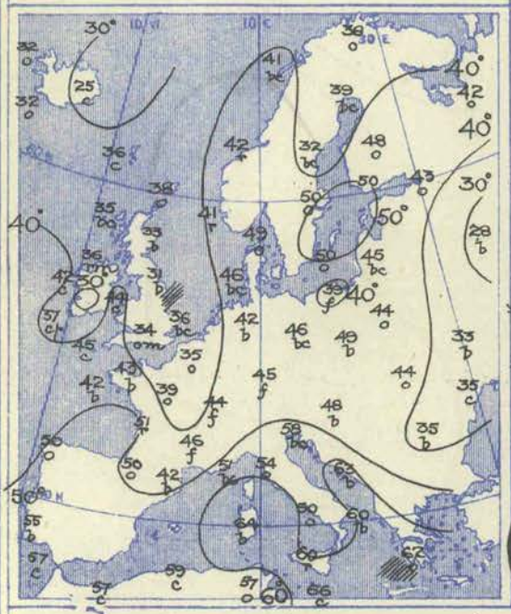
Temperature fallen over the United Kingdom and France. Morning readings below 40° over the greater portion of these Islands, and below 30° in central Ireland. Continental values ranging from above 60° on some shores of the Mediterranean to below 50° generally, below 45° over a large area, and to little above 32° in some parts of Russia and northern Scandinavia. Maxima reaching 50° during day on the extreme south-west coast of England only, and very little above 40° at many stations in the north and east.

Wind in morning fresh to high from the Northward or the North-Westward over the eastern half of England and the Channel, and light or moderate from the Northward over these Islands generally; light to strong from the Southward over the Netherlands. A separate cyclonic circulation of light to moderate breezes prevailing over Scandinavia. A high wind from South at Palermo, but light breezes from rather varying directions over the Mediterranean as a whole. Decreasing in force over England and the Channel by evening, and veering to the Westward in the Netherlands.

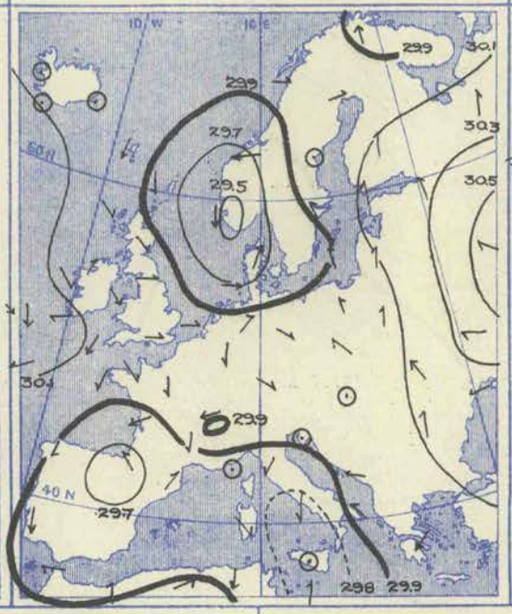
Barometer in morning as high as 30·4 ins. in central Russia and 30·3 ins. in the north of Iceland. Below 29·5 ins. in a depression having its minimum between East Anglia and the Netherlands, nearly as low in a disturbance over the west of Norway, and below 29·8 ins. in a shallow system over Sardinia. Depressions over Norway and the Netherlands both moving northwards during day, but a new disturbance shown at 6 p.m. over the north-west of Spain.

Saturday, 30th October, 1909.

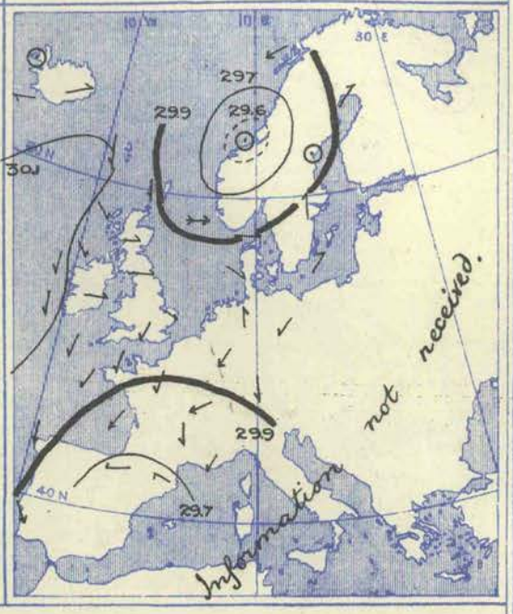
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to showery in the west and north of these Islands, overcast in the south and south-east and at most places in the western and north-western countries of the Continent, with rain at some stations in France, Holland, and Scandinavia. Fair to fine and bright in the east and south of our area generally, but rain falling over a considerable part of Italy. Rain experienced later over the western half of our area generally, and some snow showers in Scotland.

Temperature fallen in most regions. Morning readings below 32° in central Ireland and central Russia, and below 35° in many parts of the United Kingdom. Readings below 50° over the greater portion of the Continent, but a little above it in the south of France, and above 60° at a few places in the far south of our area. Maxima during day less than 45° over a considerable portion of these Islands, and below 50° in various French localities, but thermometer rising to 63° at Perpignan and to 66° at Sanguinaire. Minima during night as low as 24° or 25° in some English and Scottish localities, and 26° in central Ireland.

Wind in morning showing a very extensive cyclonic circulation over the north-western countries, and a separate cyclonic movement in the south-west of our area. Not much force generally, but strong breezes or high winds experienced in places over the North Sea region, and also over the Bay of Biscay. Little change later of a general character, but wind increasing to a gale from West on the south-west coast of Norway.

Barometer in morning ranging from above 30·5 ins. in a large anticyclone over Russia to below 29·7 ins. in a depression over Spain, and to below 29·5 ins. in another disturbance centred over the south of Norway. Former undergoing little change during day, but latter travelling northward rather quickly. A fresh fall of the barometer setting in in Iceland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). *See* also p. 348.

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Oct. 11th, 6.30 a.m. to 7.50 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	285·5° 97% 180°, 5	285·2° 97% 176°, —	285° 98% 174°, —	282° 98% 162°, —	279·7° 83% 166°, —			278·7° 86% 165°, —	1,680	Overcast and dull morning, dull and wet afternoon, fair later. Gentle breeze early, freshening later. Clouds, Cu.-Ni. and Ni.
2	Oct. 12th, 5.20 p.m. to 6.0 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 79% 157°, —	282·5° 74% 161°, —	282° 71% 162°, —					280° 85% 167°, —	900	Overcast. Gale from S. to S.E. Clouds, Cu.-Ni. and Ni.
3	Oct. 13th, 12.30 p.m to 2.35 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281·5° 82% 225°, 7	281° 82% 233°, 10	280·6° 83% 237°, 11	279° 87% 245°, 17	278° 86% 232°, 18	277° 86% 235°, 20		276·5° 87% —°, 20	2,100	Fair to fine. Gentle to moderate breezes from S.W. and S.W. by W. Clouds, Cu. and Cu.-Ni.
4	Oct. 14th, 10.0 a.m. to 12.37 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282° 80% 214 to 236°, 7	281° 85% 220 to 236°, 8	280·3° 87% 233°, 9	276° 95% 234to 250°,13	274° 78% 250°, 14	**271°** 82% 257°, 13		**270·5°** 82% — 12	2,100	Fair to fine. Gentle to moderate breezes from S.W. Clouds, Cu. and Fr.-Cu., and later Cu. and Cu.-Ni.
5	Oct. 15th, 9.30 a.m. to 10.0 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 100% 225°, 8	283° 100% 223°, 9	282·6° 100% 222°, 10	281° 100% 220°, 17				280° 100% 230°, —	1,330	Dull and wet. Moderate to fresh breezes from S.W. Clouds, Ni.
6	Oct. 16th, 10.20 a.m. to 1.25 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	284° 82% 210°, —	283° 88% 212°, —	282° 92% 212°, —	279·5° 94% 228°, —	278·6° 93% 246°, —			276·5° 94% 255°, —	1,900	Fair to fine. Light to gentle breezes from S.W. Clouds, Cu. and Ci.
7	Oct. 24th, 10.30 a.m. to noon.	Brighton, 115 m.	Temperature Humidity .. Wind	283° 85% 290°, 9	282° 85% 290°, 12	278° 90% 290°, 15	274·5° 100% 290°, 17				**273°** 100% 290°, 18	1,200	Cu. and Alt.-Cu. Clouds at various heights above 950 m. Erratic wind.
8	Oct. 25th, 9.35 a.m. to 10.40 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	280° 80% 270, 7	279° 80% 270°, 12	278·5° 85% 280°, 14	274·5° 85% 310°, 17				274° 85% 320°, 18	1,100	Clear. Steady wind. A few light clouds.
9	Oct. 25th, 5.52 p.m. to 6.44 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	274·2° 96% Calm.	274° 96% Calm.	273·8° 96% Calm.					**272°** 98% Calm.	900	Fine and calm. No clouds.
10	Oct. 26th, 12.35 a.m. to 2 0 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	**272·6°** 89% 130°, 2 to 5	276° 74% 124°, 2 to 4	275·3° 75% 120°, 4					**272·6°** 83% 108°, 3	960	Fine in early morning and calm later. Overcast and dull, with some rain and fresh breeze.
11	Oct. 27th, 11.0 a.m. to 11.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity : Wind	280·5° 70% 20°, 10	280° 70% 20°, 14	278·5° 85% 20°, 20					278° 85% 20°, 20	550	Overcast. Clouds not reached.
12	Oct. 27th, 3.17 p.m. to 4.15 p.m.	Howard Estate, Glossop. 335 m.	Temperature Humidity .. Wind .. .	277° 70% 53°, 12	275·3° 72% 52°, 13	275° 72% 52°, 14	**268·8°** 72% 52°, 17	**263·5°** 76% 53°, 17			**262°** 82% 53°, 19	1,650	Fair to fine, with strong breeze. Clouds, Cu. Kite collapsed.

The results of Ascents Nos. 1–6 were not received in time for insertion in their proper place in Report No. 41, p. 336.

63, Victoria Street, London, S.W. *November 3rd, 1909.*

W. N. SHAW, *Director.*

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 44. FORTY-FOURTH WEEK, SUNDAY OCTOBER 31ST TO SATURDAY NOVEMBER 6TH, 1909. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather was much drier in the south and south-east than during the preceding week, and appreciably drier in most other parts of the Kingdom, but the sky was frequently overcast or very cloudy, and a good deal of mist and fog prevailed at times. Lightning was seen at Stonyhurst on the night of Sunday.

Temperature differed little from the normal over the Kingdom as a whole, being above it in Scotland N. and E. and England N.E. and E., and somewhat below it elsewhere. The highest of the maxima were generally registered in the latter half of the week, and ranged from 61° in Scotland E., Ireland S. and the English Channel to 56° in Scotland N. The lowest of the minima, which occurred at almost all stations on October 31st or November 1st, were as low as 16° in Scotland E. and England S.W. (at Balmoral and Llangammarch Wells), and in the other districts ranged from 20° in Scotland W. and 21° in England N.W. and the Midland Counties to 29° in England E. and to 37° in the English Channel. During the latter half of the week the minima were high. The lowest grass readings reported were 11° at West Linton, 12° at Crathes and Burnley, 13° at Hereford, and 14° at Newton Rigg, Llangammarch Wells and Balmoral; at several other stations the exposed thermometer fell below 20°.

Mean Temperature of the Sea.—On all parts of the coast the water was colder than during the corresponding period of last year, the difference being very slight on the south-west coast of England, but nearly as great as 7° at Pennan Bay and Kirkwall. The means for the week ranged from about 55° at Newquay and Plymouth to below 50° at almost all stations towards the north, to 43·4° at Kirkwall, and to 42·4° at Pennan Bay.

Rainfall was less than the average, the deficit being large in all districts except England E. In England N.E. and the Midland Counties there was less than 0·1 in., and less than 0·2 in. in Scotland W., England S.W. and Ireland S.

Bright Sunshine slightly exceeded the normal in Ireland, England S. and Scotland E., and just equalled it in Scotland N., but elsewhere it was deficient. The percentage of the possible duration ranged from 31 in England S. and nearly 30 in Ireland, the English Channel and Scotland E. to 14 in the Midland Counties, and to 11 in England N.E.

Barometer and Wind.—Soon after the commencement of the week an anticyclonic system of little intensity began to extend over these Islands from the Atlantic, and this, with numerous modifications in form, position, and intensity continued the dominating feature over England throughout the period. Some low pressure systems impinging on our north-western and northern coasts caused the wind to blow freshly or strongly from between South and West in those districts late in the week, but generally the wind was light and rather variable.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 356.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Light	Light	Very light	Moderate	Very light	Light	Very light	Light	Very light	Light	Very light	Light
	Sunshine ...	Moderate	Moderate	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 9 weeks from Sept. 5th, 1909.	Warmth ...	2 * 3	3 * 3	2 * 3	3 * 2	3 * 2	3 * 3	3 * 3	3 * 3	3 * 4	4 * 3	4 * 3	3 * 3
	Rainfall ...	3 * 5	4 * 2	0 * 2	2 * 0	2 * 1	4 * 1	3 * 3	3 * 3	3 * 2	3 * 4	4 * 5	4 * 2
	Sunshine ...	2 * 2	2 * 3	0 * 4	0 * 6	0 * 4	0 * 2	2 * 5	2 * 1	1 * 3	2 * 2	2 * 2	1 * 4

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

8198 450 Wy. & S. Ltd. 11—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-FOURTH WEEK—October 31st to November 6th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	56	22	49·9	39·6	44·8	+ 0·8	30	+ 3	7	− 4	5	− 1	0·50	− 0·79	13	0	21	0
Eastern																		
1. SCOTLAND, EAST	61	16	51·6	36·4	44·1	+ 0·9	38	+ 10	16	+ 1	3	− 2	0·23	− 0·53	17	+ 2	27	+ 3
2. ENGLAND, N.E.	60	23	52·1	40·2	46·2	+ 0·6	37	+ 3	5	− 2	3	− 1	0·09	− 0·57	8	− 8	11	− 13
3. ENGLAND, EAST	58	29	52·0	42·6	47·3	+ 1·0	37	− 2	0	− 8	3	− 1	0·42	− 0·15	12	− 7	18	− 11
4. MIDLAND COUNTIES ..	59	21	51·6	38·9	45·3	− 0·1	36	0	8	− 2	3	− 1	0·09	− 0·57	9	− 7	14	− 10
5. ENGLAND, S.E.	59	26	52·8	41·3	47·1	− 0·9	39	− 8	2	− 3	2	− 2	0·27	− 0·54	21	+ 2	31	+ 3
Western																		
6. SCOTLAND, WEST	59	20	51·1	38·0	44·6	− 1·2	35	+ 1	11	+ 3	3	− 2	0·20	− 1·10	14	− 1	22	− 1
7. ENGLAND, N.W.	58	21	51·0	40·3	45·6	− 1·0	32	− 6	5	− 1	4	− 1	0·33	− 0·58	13	− 2	19	− 3
8. ENGLAND, S.W.	60	16	52·2	40·7	46·5	− 1·7	37	− 11	4	0	3	− 2	0·13	− 0·97	13	− 5	19	− 7
9. IRELAND, NORTH	60	24	51·8	39·0	45·4	− 0·7	36	0	8	+ 1	4	− 1	0·49	− 0·45	18	+ 2	28	+ 2
10. IRELAND, SOUTH	61	24	52·9	39·0	45·9	− 1·7	40	− 6	8	+ 2	4	− 1	0·15	− 0·82	19	+ 1	29	+ 1
11. ENGLISH CHANNEL	61	37	55·6	45·0	50·3	− 1·3	58	− 9	0	0	3	− 2	0·33	− 0·62	19	− 2	28	− 3

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 9 Weeks, September 5th to November 6th, 1909.

0. SCOTLAND, NORTH	68	20	*	*	*	*	424	− 29	43	0	44	− 1	9·57	− 0·85	204	+ 27	29	+ 4
Eastern																		
1. SCOTLAND, EAST	70	16	*	*	*	*	435	− 50	56	+ 1	40	+ 3	6·55	+ 0·78	202	− 5	28	− 1
2. ENGLAND, N.E.	70	23	*	*	*	*	583	+ 11	27	+ 4	40	+ 7	4·41	− 0·72	179	− 50	25	− 7
3. ENGLAND, EAST	74	28	*	*	*	*	691	+ 37	11	− 17	41	+ 9	5·82	+ 0·95	192	− 64	27	− 9
4. MIDLAND COUNTIES ..	71	21	*	*	*	*	612	+ 15	31	− 6	43	+ 11	5·81	+ 0·66	178	− 46	25	− 7
5. ENGLAND, S.E.	71	25	*	*	*	*	738	+ 11	10	− 8	42	+ 11	9·61	+ 3·78	220	− 39	31	− 6
Western																		
6. SCOTLAND, WEST	70	20	*	*	*	*	530	− 9	48	+ 18	36	− 1	9·81	+ 0·28	195	− 15	27	− 2
7. ENGLAND, N.W.	69	21	*	*	*	*	588	− 22	28	+ 11	38	+ 3	8·62	+ 1·38	203	− 10	28	− 1
8. ENGLAND, S.W.	72	16	*	*	*	*	691	0	11	− 2	42	+ 6	9·56	+ 1·53	225	− 21	31	− 3
9. IRELAND, NORTH	68	22	*	*	*	*	567	+ 2	34	+ 13	41	0	8·43	+ 1·09	210	+ 6	29	+ 1
10. IRELAND, SOUTH	72	23	*	*	*	*	656	+ 12	23	+ 5	45	+ 9	7·93	+ 0·88	245	+ 7	34	+ 1
11. ENGLISH CHANNEL	74	36	*	*	*	*	911	+ 36	0	0	42	+ 3	8·13	+ 1·22	267	− 36	37	− 5

THE YEAR.—Aggregates, &c., for the Period of 44 Weeks, January 3rd to November 6th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1852	− 155	578	− 22	208	+ 3	35·13	− 6·70	1085	+ 24	27	+ 1
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	2030	− 225	729	+ 54	177	+ 7	28·01	+ 2·67	1221	− 38	30	− 1
2. ENGLAND, N.E.	85	14	*	*	*	*	2506	− 16	607	+ 109	162	+ 9	22·41	+ 1·82	1294	− 70	33	− 2
3. ENGLAND, EAST	85	12	*	*	*	*	2788	− 126	565	+ 16	154	+ 16	21·10	+ 1·32	1491	+ 8	38	0
4. MIDLAND COUNTIES ..	86	8	*	*	*	*	2707	− 126	673	+ 103	158	+ 11	22·81	+ 0·90	1347	+ 24	34	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	2919	− 227	492	+ 93	155	+ 14	26·98	+ 5·04	1602	+ 99	41	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2311	− 131	493	+ 38	170	− 7	38·81	+ 0·43	1322	+ 30	33	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2512	− 165	494	+ 91	167	+ 4	30·19	+ 1·74	1404	+ 94	35	+ 2
8. ENGLAND, S.W.	89	7	*	*	*	*	2803	− 180	401	+ 87	166	+ 5	29·90	− 0·78	1557	+ 93	40	+ 2
9. IRELAND, NORTH	78	14	*	*	*	*	2484	− 68	349	− 17	196	+ 3	30·18	− 1·03	1174	− 21	30	− 1
10. IRELAND, SOUTH	81	15	*	*	*	*	2899	− 31	288	+ 11	184	+ 13	28·96	− 3·27	1370	+ 25	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	3471	+ 10	151	+ 42	153	− 19	24·00	− 1·59	1854	+ 74	47	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	NAMES OF STATIONS.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	*p Balta Sound* S	*51*	*3rd, 4th*	*28*	*3rd*	*47·6*	*36·5*	*42·1*	—	*24*	*15*	*7*	*0·91*	—	*8·9*	—	*15*	—	*Balta Sound.*
	a Sumburgh Head ..	51	4th, 5th	33	1st	48·1	37·6	42·9	- 1·6	25	12	7	0·89	- 0·06	12·2	- 2·2	20	- 4	Deerness.
	a Stornoway	55	3rd	34	31st	50·4	43·0	46·7	+ 2·2	33	0	7	0·76	- 0·57	15·8	+ 1·0	26	+ 2	Stornoway.
	a Castlebay, Barra Isd.	*55*	*3rd*	*34*	*31st*	*51·7*	*45·0*	*48·4*	+ *2·0*	*45*	*0*	*4*	*0·28*	—	*19·5*	—	*31*	—	*Castlebay.*
	a Wick	56	3rd	25	31st	50·1	38·3	44·2	- 0·2	31	10	4	0·63	- 0·07	*	*	*	*	
	p Strathpeffer	56	4th	28	1st	51·2	41·0	46·1	+ 2·6	33	3	3	0·13	- 0·52	12·5	- 3·8	20	- 6	Strathpeffer.
	p Glencarron .. S	53	4th	26	31st	49·0	40·0	44·5	+ 1·5	26	6	6	0·66	- 1·45	*	*	*	*	
	p Fort Augustus S	55	3rd. 4th	22	31st	50·6	37·8	44·2	+ 0·2	33	12	4	0·15	- 0·83	11·3	+ 1·0	18	+ 2	Fort Augustus.
	p Fort William S	54	3rd	22	31st	50·0	39·3	44·7	- 0·1	30	8	6	0·31	- 1·49	*	*	*	*	
1. SCOTLAND E.	*p* Gordon Castle S	60	3rd	26	1st	51·4	38·6	45·0	+ 0·7	35	10	3	0·57	- 0·17	*15·6*	—	*25*	—	*Gordon Castle.*
	a Nairn	58	3rd	25	1st	51·0	38·1	44·6	+ 0·7	35	11	2	0·39	- 0·12	20·0	—	32	—	Nairn.
	a Aberdeen	59	3rd	26	1st	51·6	37·4	44·5	- 0·1	37	13	3	0·34	- 0·33	17·7	- 0·3	28	- 1	Aberdeen.
	a Balmoral .. S	60	4th	16	1st	54·3	32·0	43·2	+ 2·3	50	28	2	0·07	- 0·83	16·2	—	26	—	Crathes S.
	p Crieff .. .. S	61	3rd	23	31st	53·3	34·9	44·1	- 0·1	45	20	3	0·09	- 0·87	21·5	—	34	—	Balruddery
	a Leith	59	5th	26	1st	53·0	38·7	45·9	0·0	41	9	3	0·04	- 0·42	20·3	+ 5·6	32	+ 9	Edinburgh.
	a West Linton .. S	52	3rd	17	1st	47·9	33·0	40·5	- 2·2	17	36	4	0·18	—	*13·6*	—	*21*	—	*West Linton.*
	p Marchmont .. S	57	3rd	27	1st	50·3	38·9	44·6	+ 1·3	31	9	4	0·14	- 0·64	6·7	- 9·0	11	- 14	Marchmont.
2. ENGLAND, N.E. — a, North.	*a* Alnwick Castle ..	59	3rd	23	31st	52·4	36·3	44·4	- 0·2	41	16	3	0·10	- 0·71	12·4	—	19	—	Cockle Park.
	a Shields	58	3rd	27	31st, 1st	52·1	39·1	45·6	- 0·1	37	8	2	0·08	- 0·54	*5·1*	- *6·7*	*8*	- *10*	*Newcastle.*
	p Durham	60	3rd	23	31st	52·1	39·6	45·9	+ 1·3	37	7	2	0·04	- 0·62	8·3	- 8·3	13	- 13	Durham.
	p Rounton .. M	55	4th	23	31st	50·9	39·8	45·4	+ 1·4	33	6	4	0·05	- 0·66	*	*	*	*	
	p Scarborough .. M	59	3rd	36	31st	54·6	44·6	49·3	+ 2·9	51	0	4	0·06	- 0·63	1·0	—	2	—	Scarborough.
	p York	56	3rd	25	31st	52·1	39·7	45·9	+ 0·2	37	6	2	0·04	- 0·51	2·1	- 12·5	3	- 19	York.
— b, South.	*a* Spurn Head	54	5th, 6th	38	31st	51·6	43·7	47·7	+ 0·5	40	0	1	0·05	- 0·44	*	*	*	*	
	a Lincoln	55	4th	29	31st	51·4	40·2	45·8	+ 0·2	34	5	6	0·20	- 0·30	11·3	—	17	—	Skegness.
	a Fulbeck	56	4th, 5th	26	31st	52·0	39·4	45·7	+ 0·5	37	7	4	0·18	- 0·32	10·0	—	15	—	Rauceby.
															11·8	—	*18*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	*p* Cromer	57	5th	40	6th	53·2	44·4	48·8	+ 3·8	48	0	3	0·39	—	11·4	—	17	—	Cromer.
	p Hillington .. M	55	5th	34	6th	51·5	42·2	46·9	+ 1·4	34	0	5	0·25	- 0·39	12·2	- 5·0	19	- 8	Hillington.
	a Yarmouth	55	6th	35	31st	52·0	44·1	48·1	+ 1·2	43	0	2	0·62	- 0·01	8·4	—	13	—	Yarmouth.
	a Norwich	54	5th	35	6th	51·5	43·0	47·3	+ 2·1	37	0	6	0·54	—	*	*	*	*	
	p Geldeston	58	6th	35	6th	53·1	42·7	47·9	+ 1·1	41	0	4	0·67	+ 0·07	11·3	- 7·9	17	- 12	Geldeston.
	p Cambridge	56	6th	29	31st	52·6	41·2	46·9	+ 0·9	38	2	4	0·24	- 0·26	13·5	- 5·5	20	- 8	Cambridge.
— b, South.	*a Felixstowe*	*54*	*2, 5, 6th*	*37*	*31st*	*52·6*	*43·6*	*48·1*	+ *0·4*	*43*	*0*	*1*	*0·87*	—	*19·0*	—	*28*	—	*Felixstowe.*
	a Clacton-on-Sea ..	55	6th	35	31st	52·6	43·1	47·9	+ 0·2	41	0	2	0·70	—	19·7	—	29	—	Clacton.
	a Rothamsted ..	53	2, 3, 4, 5, 6	31	31st, 6th	51·4	39·8	45·6	+ 0·8	34	6	2	0·23	- 0·44	13·9	- 5·3	21	- 8	Rothamsted.
	a Shoeburyness ..	*56*	*6th*	*35*	*31st*	*53·0*	*43·1*	*47·6*	- *0·4*	*39*	*0*	*3*	*0·34*	- *0·11*	*19·9*	—	*30*	—	*Southend.*
	p Tottenham	54	3rd	34	6th	50·5	42·7	46·6	0·0	32	0	2	0·10	—	4·7	—	7	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	*a* Harrogate	55	4th	26	31st	50·3	41·6	46·0	+ 1·5	30	1	2	0·08	- 0·60	4·7	—	7	—	Harrogate.
	a Bawtry	58	4th	23	31st	52·3	37·9	45·1	+ 0·1	39	11	3	0·04	- 0·40	1·0	- 14·2	2	- 22	Worksop.
	p Buxton .. .. M	*52*	*4th*	*20*	*31st*	*48·2*	*38·8*	*43·5*	+ *0·7*	*24*	*9*	*3*	*0·21*	- *1·02*	*3·6*	—	*6*	—	*Buxton.*
	a Nottingham ..	57	4th	24	31st	52·6	38·3	45·5	- 0·1	40	10	3	0·05	- 0·45	8·1	—	12	—	Nottingham.
	p Birmingham, Edgbsn	56	5th	31	31st	50·2	41·7	46·0	+ 0·5	29	1	3	0·07	- 0·50	6·8	—	10	—	Birmingham.
	a Raunds .. M	59	5th	28	31st	53·1	37·3	45·2	- 0·1	42	13	5	0·24	—	*	*	*	*	
— b, West.	*a* Oxford	54	3rd, 5th	30	6th	51·4	39·1	45·3	- 1·0	35	8	3	0·15	- 0·43	12·6	- 5·6	19	- 8	Oxford.
	a Cheadle .. M	54	4th	29	31st	50·3	39·7	45·0	+ 0·5	31	6	1	0·02	- 0·66	*	*	*	*	Sheffield.
	p Shrewsbury	54	2, 3, 4, 5th	21	31st	51·4	39·5	45·5	- 0·6	35	7	3	0·10	—	*	*	*	*	
	p Hereford .. M	57	3rd	24	31st	51·2	37·3	44·3	- 1·7	36	13	4	0·07	- 0·50	*	*	*	*	
	a Cirencester	56	5th	27	31st	51·6	37·6	44·6	+ 0·1	37	12	4	0·07	- 0·61	13·2	- 5·1	20	- 8	Cirencester.
	a Bath	57	5th	26	31st	53·0	37·6	45·3	- 1·9	42	12	2	0·10	- 0·58	17·1	—	26	—	Bath.
															22·5	—	*34*	—	*Ramsgate.*
5. ENGLAND, S.E. ...	*p* Kew	55	3rd	32	6th	52·3	41·7	47·0	+ 0·5	36	1	1	0·05	- 0·52	13·4	- 2·9	20	- 4	Kew.
	a Marlborough ..	54	3rd, 5th	26	31st	51·1	36·9	44·0	- 0·8	35	14	3	0·23	- 0·55	14·6	- 2·9	22	- 4	Marlborough.
	a Margate	59	6th	38	31st	54·0	45·3	49·7	+ 1·5	54	0	1	0·50	- 0·12	19·6	+ 0·1	29	0	Margate.
	a Wisley, Surrey	56	6th	29	6th	52·4	38·8	45·6	- 1·6	39	9	3	0·14	—	13·9	—	21	—	Wisley.
	a Swarraton .. M	56	6th	31	31st	51·6	38·1	44·9	- 0·6	37	11	4	0·27	- 0·50	23·6	—	35	—	Worthing.
	a Tunbridge Wells M	55	5th, 6th	33	31st	52·5	38·0	45·3	- 1·1	40	11	2	0·33	- 0·46	24·9	+ 5·2	37	+ 8	Tunbridge Wells.
	a Dungeness	56	2nd	?30	31st	53·9	43·1	48·5	- 0·6	46	0	1	0·25	- 0·40	22·7	—	34	—	Littlestone.
	p Hastings	56	2nd, 6th	38	31st	53·5	44·1	48·8	0·0	48	0	2	0·24	- 0·54	*25·9*	+ *4·1*	*39*	+ *6*	*Hastings.*
	p Southampton ..	57	6th	35	31st, 6th	52·5	42·7	47·6	- 0·8	39	0	1	6·28	- 0·52	15·9	- 4·0	24	- 6	Southampton.
	a Ventnor	57	6th	36	31st	54·3	44·7	49·5	- 0·3	53	0	3	0·36	- 0·21	29·9	+ 7·9	45	+12	Ventnor.
															27·0	+ 5·9	40	+ 9	Eastbourne.
LONDON .. — ..	*a Westminster* ..	*55*	*2, 3, 4, 6th*	*34*	*31st*	*53·6*	*42·0*	*47·8*	+ *1·2*	*41*	*0*	*3*	*0·14*	- *0·42*	*10·3*	- *0·9*	*15*	- *1*	*Westminster.*
	a Greenwich	*57*	*6th*	*34*	*6th*	*53·2*	*40·9*	*47·1*	+ *0·5*	*40*	*3*	*2*	*0·15*	- *0·41*	*20·1*	+ *4·7*	*30*	+ *7*	*Greenwich.*
6. — a, SCOTLAND. W. ..	*p* Laudale														*	*	*	*	
	a Poltalloch .. S	54	3rd	22	31st	50·9	37·9	44·4	- 1·2	34	11	4	0·65	- 0·55	*	*	*	*	
	p Glasgow	56	3rd	25	31st, 1st	48·8	38·5	43·7	- 1·1	27	10	3	0·05	- 0·75	6·1	- 5·3	10	- 8	Glasgow.
	p Rothesay .. S	57	3rd	29	1st	50·9	39·1	45·0	- 0·5	33	8	5	0·26	- 0·73	*	*	*	*	
	a Kilmarnock ..	57	3rd	20	1st	50·7	36·0	43·4	- 1·4	35	17	1	0·02	—	*12·8*	—	*20*	—	*Kilmarnock.*
	a Colmonell ..	59	3rd	23	31st, 1st	53·2	35·7	44·5	- 0·5	44	18	2	0·11	- 1·02	*	*	*	*	
	p Dumfries	57	4th	25	1st	50·3	39·9	45·1	- 0·4	31	6	2	0·09	- 0·77	*14·4*	—	*22*	—	*Dumfries.*
	p Cally, Gatehouse	59	3rd	24	1st	52·2	35·1	43·7	- 1·1	41	19	4	0·33	- 0·86	*	*	*	*	
— b, ISLE OF MAN ..	*p* Douglas	57	3rd	32	1st	51·8	41·4	46·6	- 0·4	35	2	3	0·12	- 0·95	22·1	+ 3·5	34	+ 5	Douglas.
															10·9	—	17	—	Hoylake.
7. — a, ENGLAND, N.W. ...	*p* Aspatria	55	3rd	25	1st	49·9	38·9	44·4	- 0·6	30	9	5	0·31	- 0·63	17·2	—	27	—	Aspatria.
	p Newton Rigg ..	56	3rd	21	31st	50·4	36·6	43·5	- 0·1	33	15	2	0·33	- 0·53	14·4	- 1·1	22	- 2	Newton Rigg.
	p Stonyhurst	54	3rd	28	31st	50·5	41·9	46·2	+ 1·5	30	0	3	0·31	- 0·73	7·8	- 7·5	12	- 11	Stonyhurst.
	p Blackpool .. M	53	3rd, 5th	26	31st	50·2	39·3	44·8	- 1·8	31	8	3	0·11	- 0·74	9·6	- 6·7	15	- 10	Blackpool.
	p M nch'ster, Prestwich	54	3rd	28	31st	51·1	43·0	47·1	+ 1·6	36	0	3	0·15	- 0·69	*4·9*	- *6·4*	*7*	- *10*	*Prestwich.*
	a Liverpool (Bidston)	54	4th, 5th	31	31st	50·4	41·0	45·7	- 1·2	30	3	4	0·19	- 0 51	*13·6*	—	*21*	—	*Liverpool.*
	a Hawarden Bridge ..	58	5th	24	31st	52·4	40·5	46·5	- 1·1	38	4	3	0·13	- 0·49	*9·1*	- *6·1*	*14*	- *9*	*Southport.*
															14·4	—	*22*	—	*Rhyl.*
— b, NORTH WALES ..	*p* Llandudno .. M	54	3rd, 5th	29	31st	51·6	42·2	46·9	- 1·6	34	0	3	0·23	- 0·57	12·1	- 3·9	18	- 6	Llandudno.
	a Holyhead	55	3rd	35	31st, 1st	51·7	41·7	46·7	- 2·0	34	1	4	1·19	+ 0·27	18·3	—	28	—	Aberdovey.
	p Bettws-y-Coed ..	57	3rd	26	31st	51·3	37·9	44·6	- 3·4	35	11	5	0·30	—	11·4	—	17	—	Bettws-y-Coed.
															12·7	—	19	—	Aberystwyth.
8. — a, SOUTH WALES ..	*a* Llangammarch Wells	57	3rd	16	31st	50·4	36·6	43·5	- 1·2	33	15	6	0·15	—	5·2	—	8	—	Llangammarch Wells.
	a Pembroke	55	2, 3, 4th	35	31st	52·6	43·9	48·3	- 1·4	44	0	4	0·20	- 0·70	11·5	- 7·6	17	- 11	Pembroke.
	a Cardiff	55	5th	29	31st	50·9	40·4	45·7	- 0·6	33	4	3	0·05	- 0·98	*10·3*	—	*15*	—	*Cardiff.*
															12·0	- *7·7*	*18*	- *12*	*Tenby.*
— b, ENGLAND, S.W. ..	*a* Clifton	55	3rd, 5th	29	31st	50·9	39·8	45·4	- 1·6	33	6	3	0·11	- 0·69	*9·2*	—	*14*	—	*Clifton.*
	a Shaftesbury .. M	55	6th	32	31st	50·5	40·0	45·3	- 1·0	32	6	3	0·36	- 0·45	*	*	*	*	
	a Arlington	54	3rd, 5th	28	31st	51·1	38·7	44·9	- 1·8	34	9	3	0·07	- 1·35	10·9	- 10·5	16	- 16	Newquay.
	a Cullompton .. M	60	3rd	24	31st	54·0	37·6	45·8	- 1·2	45	12	3	0·05	- 0·80	9·5	- 7·9	14	- 12	Cullompton.
	a Portland Bill ..	56	3rd, 4th	37	31st	53·7	43·9	48·8	- 1·3	48	0	3	0·22	—	*28·1*	—	*42*	—	*Weymouth.*
	p Plymouth	59	5th	30	31st	54·5	40·9	47·7	- 1·7	45	3	0	0·00	- 0·87	22·8	+ 2·4	34	+ 4	Plymouth.
	p Falmouth	57	3rd	34	31st	52·9	45·4	49·2	- 0·8	50	0	3	0 08	- 1·03	15·7	- 7·3	23	- 11	Falmouth.
															18·9	- *1·1*	*28*	- *2*	*Torquay.*
9. IRELAND, N. — a, West.	*a* Malin Head	53	3rd, 4th	34	31st	50·4	42·3	46·4	- 0·8	31	0	5	0·22	- 0·52	*	*	*	*	
	a Blacksod Point ..	55	1st, 4th	35	1st	52·3	44·1	48·2	- 0·2	43	0	5	0·73	- 0·47	*	*	*	*	
	p Markree Castle ..	56	2nd, 3rd	24	1st	51·9	34·3	43·1	- 2·4	40	22	3	0 96	0·00	17·5	+ 1·0	27	+ 2	Markree Castle.
— b, East.	*a* Birr Castle	56	4th	24	1st	52·1	35·1	43·6	- 1·9	40	19	4	0·21	- 0·50	*16·2*	- *2·4*	*25*	- *4*	*Birr Castle.*
	p Armagh	56	3rd	25	31st	51·4	37·6	44·5	- 1·1	36	12	4	0·25	- 0·39	18·3	+ 1·5	29	+ 2	Armagh.
	a Donaghadee ..	60	3rd	31	31st	52·6	40·4	46·5	- 0·5	38	4	3	0·56	- 0·11	*	*	*	*	
10. IRELAND, S. — a, East.	*p* Dublin, City	57	3rd	30	1st	52·1	41·4	46·8	- 0·9	36	2	3	0·07	- 0·54	22·0	+ 1·2	33	+ 2	Phœnix Park.
	a Kilkenny	58	3rd	26	31st	51·1	36·1	43·6	- 2·5	36	17	3	0·18	- 0·52	*	*	*	*	
	a Waterford	61	3rd	28	31st	53·1	40·0	46·6	- 0·7	41	6	2	0·11	- 0·77	*	*	*	*	
— b, West.	*a* Birr Castle	56	4th	24	1st	52·1	35·1	43·6	- 1·9	40	19	4	0·21	- 0·50	16·2	- 2·4	25	- 4	Birr Castle.
	a Foynes	55	2, 3, 4th	31	1st	52·7	40·1	46·4	- 1·1	39	5	6	0·15	- 0·73	*	*	*	*	
	a Cahir .. .. M	56	2nd, 3rd	27	1st	52·4	37·6	45·0	- 2·3	39	12	2	0·05	—	*	*	*	*	
	a Killarney	60	3rd	27	1st	55·4	38·1	46·8	- 1·2	50	11	5	0·15	- 1·15	*	*	*	*	
	a Valencia	57	4th	31	1st	53·6	39·6	46·6	- 2·9	42	7	6	0·34	- 0·93	20·7	+ 1·3	31	+ 2	Valencia.
	a Roche's Point ..	61	3rd	35	31st	53·4	42·6	48·0	- 1·4	42	0	5	0·11	- 0·84	18·1	—	27	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	57	4th	39	31st, 1st	54·4	45·6	50·0	- 2·0	56	0	1	0·02	- 0·78	14·3	- 7·9	21	- 12	Scilly.
	a Jersey, St. Aubins ..	58	2nd	37	6th	55·6	43·3	49·5	- 2·2	53	0	5	0·59	- 0·38	22·9	- 0·6	34	- 1	St. Heliers.
	a Guernsey	61	6th	40	6th	56·7	46·0	51·4	- 0·1	66	0	4	0·37	- 0·67	20·4	+ 0·4	30	+ 1	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 24·4 hrs.* (+ *2·5 hrs.*), *36* % (+ *4* %); *Bournemouth, 21·9 hrs., 33* %; *Bognor, 25·2 hrs., 38* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	41·9	—
	— —				
	— —				
1.	Aberdeen	—	—	—	
	Crathes	4	12	42·7	47·2
	Balmoral	3	14	—	—
	West Linton	4	11	—	—
	Marchmont	2	21	41·4	—
2.	Cockle Park	2	23	42·1	45·1
	Durham	2	18	—	—
	York	—	—	46·5	50·5
	Hull	1	24	45·4	51·0
	Lincoln	—	—	45·8	50·6
	Rauceby	2	27	47·3	51·4
3.	Norwich	2	26	—	—
	Yarmouth	—	—	48·3	51·3
	Lowestoft	0	38	48·4	51·6
	Cambridge	3	20	47·7	52·1
	Clacton-on-Sea	0	31	49·1	53·1
	Southend	1	28	48·9	—
	Tottenham	1	30	—	53·0
4.	Harrogate	2	17	45·2	47·1
	Huddersfield	1	18	44·2	49·1
	Buxton	2	17	43·5	49·0
	Sheffield				
	Nottingham	2	22	45·2	48·9
	Birmingham	2	21	45·6	49·8
	Oxford	2	26	—	—
	Hereford	4	13	—	—
	Cirencester	—	—	—	—
5.	Margate	0	36	49·0	51·3
	Greenwich	2	25	—	—
	Westminster	0	32	—	—
	Kew	2	26	47·3	52·3
	Canterbury	2	? 27	46·7	50·0
	Tunbridge Wells	3	27	46·3	—
	Wisley	2	28	47·0	51·5
	Worthing	1	30	47·6	53·2
	Portsmouth	2	30	48·4	52·9
6.	Glasgow	3	17	—	—
	Rothesay	—	—	—	47·3
	Colmonell	4	20	—	—
	Dumfries	2	23	42·7	47·3
	Douglas	2	26	—	—
7.	Aspatria	2	17	—	—
	Newton Rigg	3	14	43·4	47·9
	Burnley	2	12	44·0	48·6
	Southport	3	18	43·2	48·3
	Manchester City	1	19	45·0	51·6
	Bettws-y-Coed	2	24	43·4	49·3
8.	Llangammarch Wells	2	14	46·1	51·1
	Cardiff	3	18	46·0	51·5
	Clifton	1	25	—	—
	Bath	—	—	48·9	53·3
	Plymouth	3	20	49·3	—
9.	Armagh	2	20	45·1	49·7
	Markree	4	19	45·9	51·3
10.	Dublin, Trin. Coll.	2	20	46·0	50·1
11.	Guernsey, Brooklyn	0	31	50·7	55·3

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	48	48	48·0
	Kirkwall	45	42	43·4
	Wick	50	50	50·0
SCOTLAND, E.	Cromarty	49	43	46·1
	Pennan Bay	44	40	42·4
	Aberdeen, Cove Bay	48	44	46·0
ENGLAND, N.E.	Burnmouth, Berwick	47	45	46·0
	Scarborough	50	47	48·8
ENGLAND, E.	Shipwash Lightship	53	50	51·4
	Margate‡	51	49	50·2
ENGLAND, S.E.	Eastbourne‡	53	51	51·9
SCOTLAND, W.	Lamlash	50	49	49·6
	Ballantrae	49	48	48·2
ENGLAND, N.W.	Port Erin	53	51	51·9
ENGLAND, S.W.	Newquay	57	54	55·2
	Plymouth‡	57	55	55·5
	Salcombe	53	50	52·8
IRELAND, N.W.	Sheephaven	50	47	48·4
	Teelin	51	48	49·4
IRELAND, S.W.	Cleggan	51	45	48·8
	Seafield	53	48	51·2
IRELAND, E.				

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; —→ = a fresh to strong breeze; —› a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

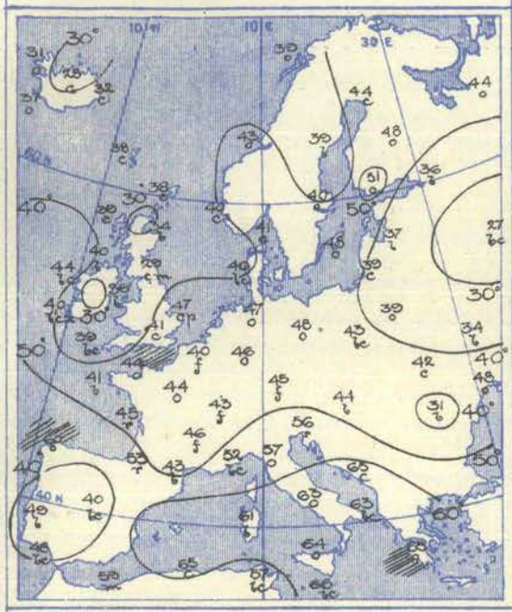
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

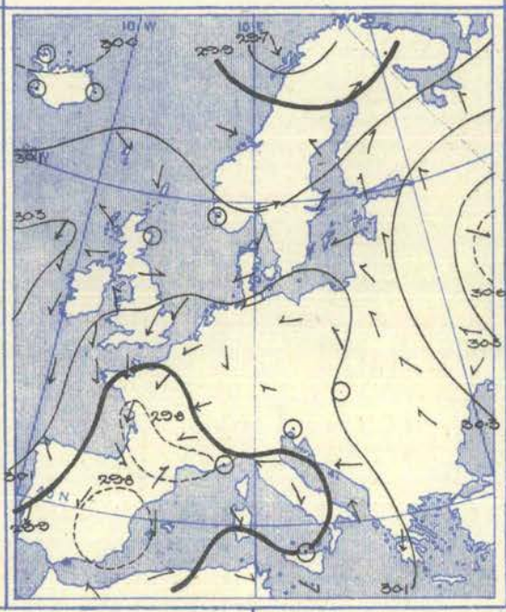
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 31st October, 1909.

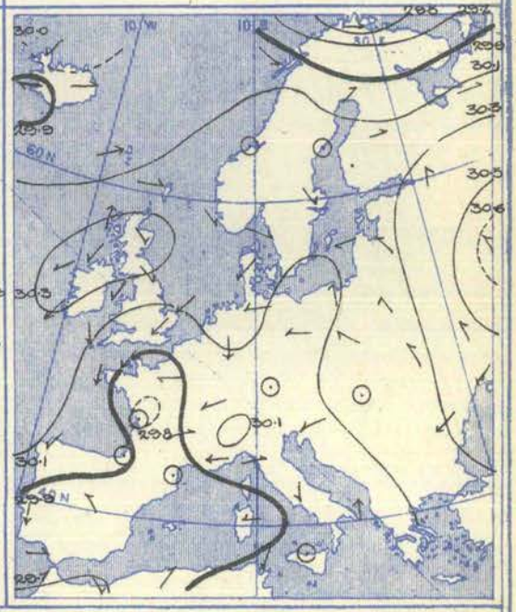
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over nearly the whole of Russia and at most stations in the south of our area, as well as at most places in Ireland and Scotland. Cloudy or overcast in the south and east of England, France, and the adjacent part of Spain, with rain in some localities; rain also falling at Bodö, Copenhagen, and Trieste. Rain later in the south of this country and over a large area in the south of Europe. Thunderstorms in the south of France, and about 2·75 ins. of rain at Cape Sicié and Croisette.

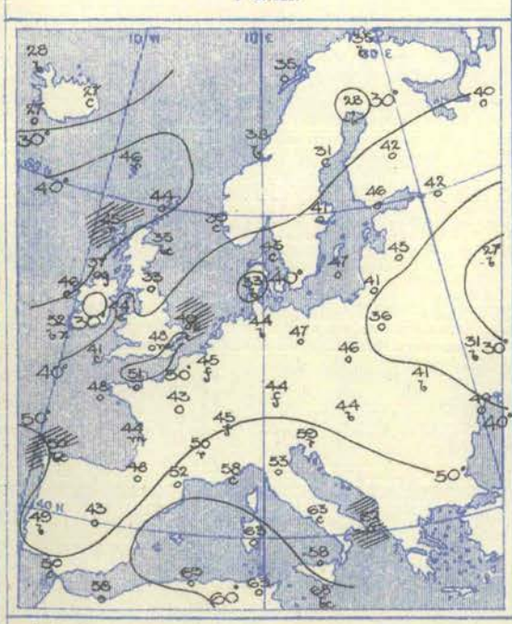
Temperature changed rather irregularly. Readings in morning ranging from above 60° at most stations in the extreme south to below 50° generally, and to below 40° over the greater part of this country and over large tracts on the Continent. Below 32° in Russia, the north of Scotland, and central Ireland. Thermometer rising to 77° at Algiers and Tunis, and to about 70° at some other southern stations, but only touching 50° in central Europe, and remaining below that point at most of our own stations and in various parts of France. Frost at night in Scotland, central Ireland, and northern England.

Wind in morning light to fresh or strong from some Westerly point over Scandinavia, light and variable over the northern portion of these Islands, and mainly from between South or South-East and North-East or North over the central countries, France, and England. Increasing somewhat in force from East and North-East later over the Netherlands and England, but decreasing in force over most of Scandinavia.

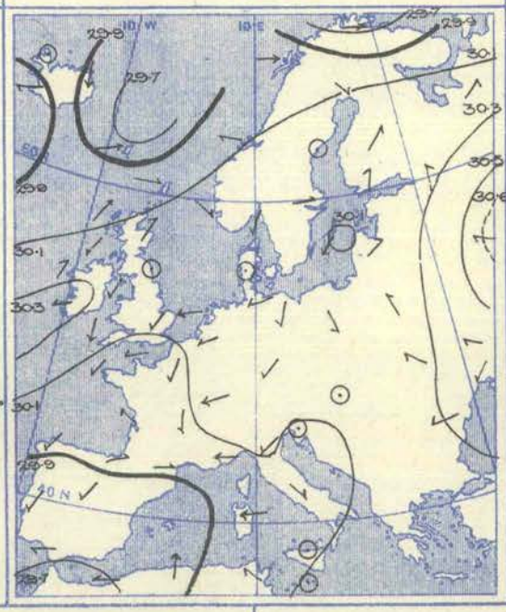
Barometer in morning above 30·6 ins. in central Russia, and above 30·2 ins. in Ireland and Scotland. Below 29·8 ins. in a large complex depression over the south-west of our area, and less than 29·7 ins. in the north of Norway. Not much change occurring during day in the general distribution of pressure, but south-western depression undergoing some modification in form. Barometer rising slowly in most parts of these Islands, but falling a little at some of our southern stations.

Monday, 1st November, 1909.

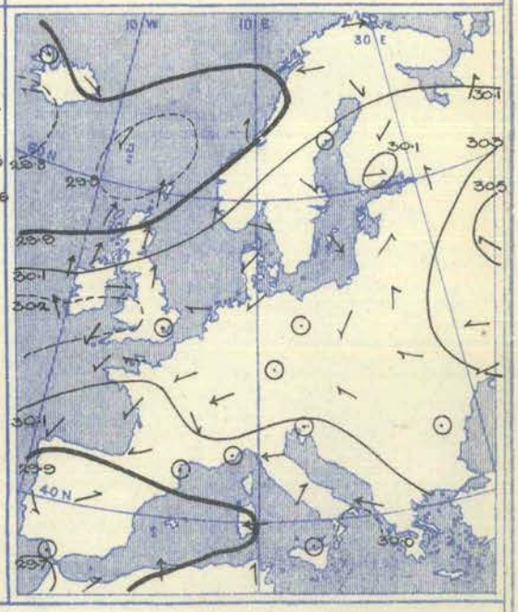
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in the north of Italy, a few parts of France and the south-east of England, as well as at Neu-Fahrwasser and Stornoway. Generally overcast or very cloudy over the western half of our area, but bright in the east and also on the coast of Portugal. Rain falling later in the west and north of the United Kingdom. Rain in some widely separated regions on the Continent, and a thunderstorm, with more than 1·0 in. of rain, at Perpignan, and nearly 3·0 in. at Cape Béarn.

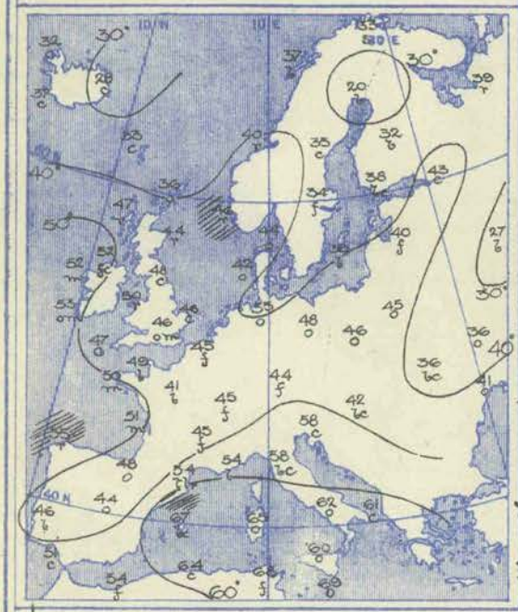
Temperature risen over Great Britain, fallen in many other regions. Morning readings below 32° in central Ireland, at Leith, and in the north of Sweden and central Russia; below 50° over the major portion of our area, but above 60° in the far south, and nearly 70° at Malta and Algiers. Rising during day to 50° or rather higher over most of this country, the Netherlands, and a large portion of central Europe, but touching or exceeding the 70 point in Italy and Algeria, and also at Palma. Night milder than those immediately preceding in these Islands.

Wind in morning between South and West in the north of this country and over the far north of the Continent, fresh to strong in force in a few localities. Mainly from between North and East, and of little force, over the southern half of our area. No important change later.

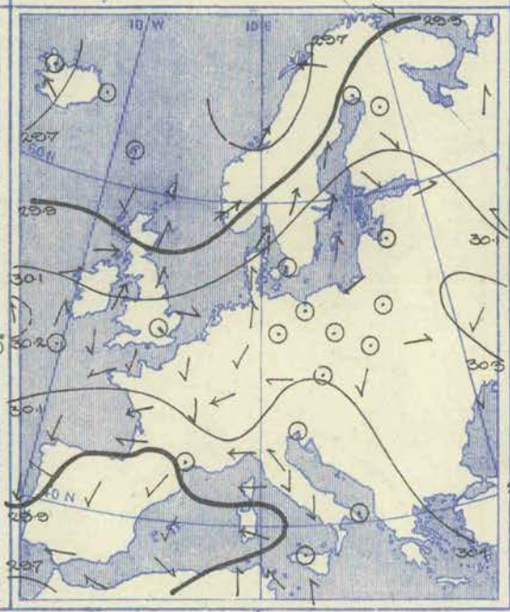
Barometer in morning above 30·6 ins. over central Russia, and above 30·3 ins. between the south-west of Ireland and the Azores; relatively high in a band extending over these Islands to Sweden and Finland. Below 29·7 ins. over the north-west of Africa and also to the northward of Scotland and on the extreme north coast of Scandinavia. Very little modification occurring later in the general distribution of pressure, but barometer falling briskly in the north of these Islands and in the south-west and west of Norway.

Tuesday, 2nd November, 1909.

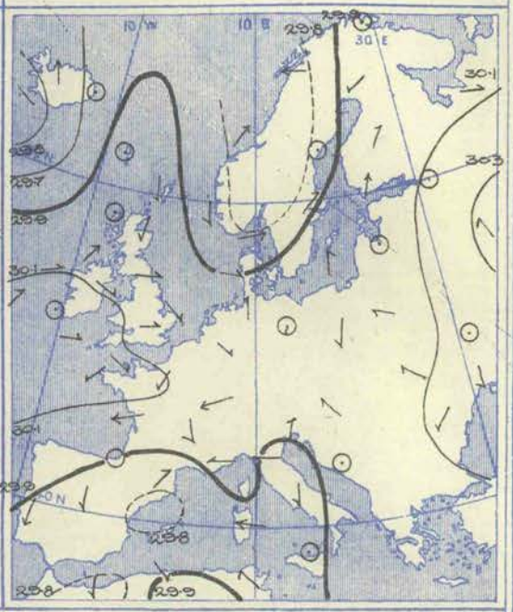
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in several places in the west and north of these Islands and Scandinavia, and cloudy or overcast in central Europe. Fair to very fine and bright in most other regions, but rain falling at Corunna and sky overcast in Spain generally. Slight rain experienced later in most parts of these Islands, and heavy amounts at many places in the south of France, the nearer parts of Spain, and in Italy. Thunderstorms occurring at Perpignan and Oran; largest rain measurements, 2·4 ins. at Perpignan and about 4·0 ins. at Cape Béarn.

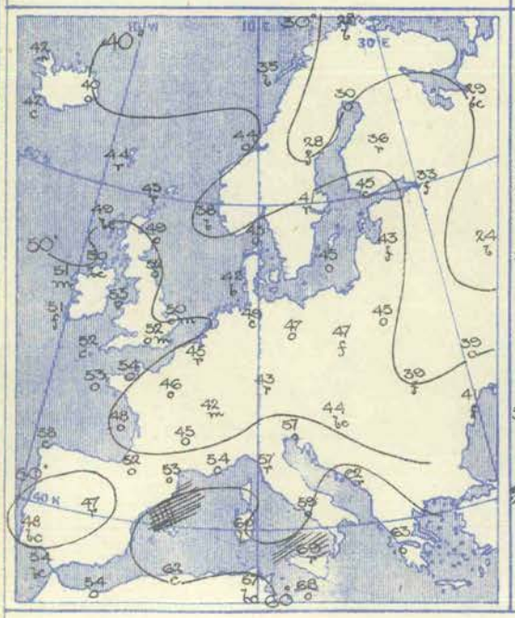
Temperature risen in most parts of our area, very decidedly in this country. Readings in morning below 50° over the major portion of our area, and below the freezing point in the north of Sweden and in central Russia. Above 60° at most stations on the shores of the Mediterranean. Maxima during day above 55° in some parts of this country, a little above 50° at most places in central Europe, above 60° over the south of our area generally, and above 70° at a few stations. Night mild over these Islands.

Wind in morning light to moderate between South and West over nearly the whole of the United Kingdom, strong to a gale from the South-Westward in Scandinavia, light and variable over the central countries, and mainly between East and North over the Mediterranean and the Spanish Peninsula. No general change during day; veering towards North and falling to gentle breeze on the south-west coast of Norway.

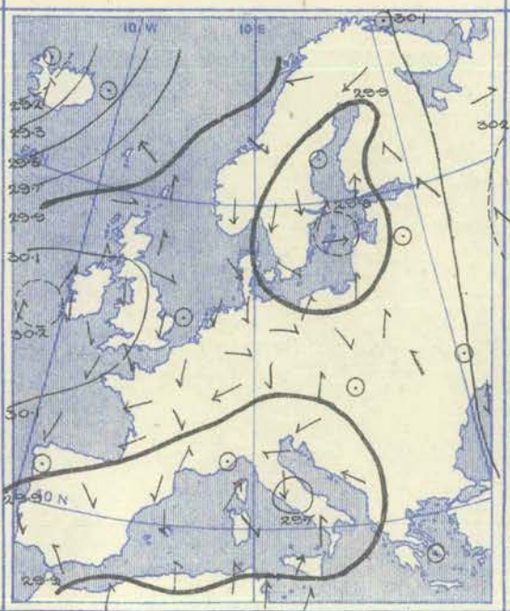
Barometer in morning above 30·3 ins. in Little Russia, and relatively high in a band extending thence to the south of this country. Below 29·7 ins. in a depression off the west of Norway, and also off the west of Iceland, and below 29·9 ins. over the Spanish Peninsula and the adjacent part of the Mediterranean. Norwegian depression moving eastward and extending southward later, and a fresh disturbance spreading over Iceland. Pressure giving way steadily over England, the Netherlands, and the central countries.

Wednesday, 3rd November, 1909.

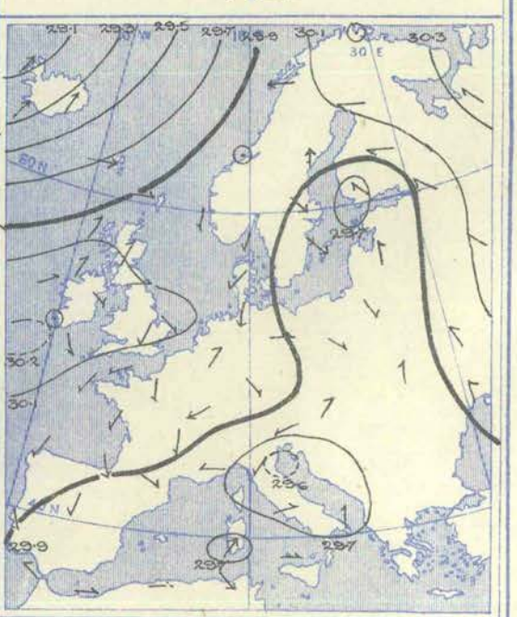
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright in some localities, but cloudy or quite overcast over our area generally, with rain at various stations on the Continent, and at a few in these Islands. Heavy rain later in some parts of Italy, North Germany, and Finland, and considerable falls in several other regions. A thunderstorm, with 0·5 in. of rain, occurring at Casa Blanca.

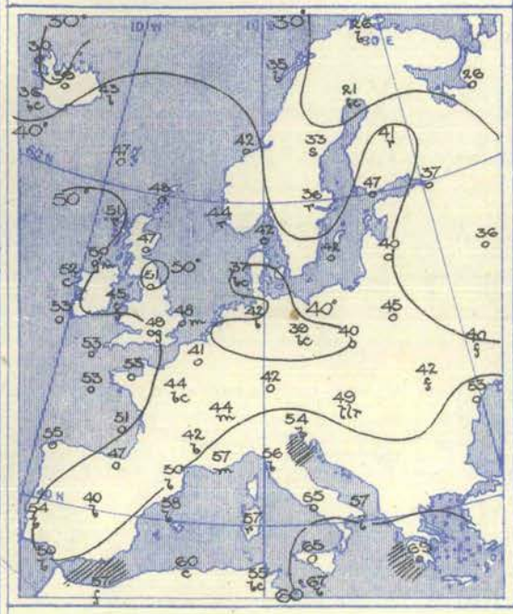
Temperature risen in these Islands and north-western Europe, fallen in the south of our area. Morning readings below 32° over a large portion of Russia and Scandinavia, and below 50° over nearly the whole of the mainland of Europe; above 60° on most shores of the Mediterranean, and as high as 69° at Palermo. Maxima during day 55° or above over the greater part of this country and France, about 50° in central Europe, between 60° and 70° at most southern stations, and a little above 70° at Malta and Palermo. Night mild over these Islands.

Wind in morning varying a good deal in direction, but generally very light to moderate in force. Cyclonic circulations prevailing over the Baltic and Italian regions, and Westerly to Northerly breezes over these Islands. Increasing to a gale from North-West at Wisby by evening, but not much change taking place generally. Backing towards South-West on the north-west coasts of these Islands.

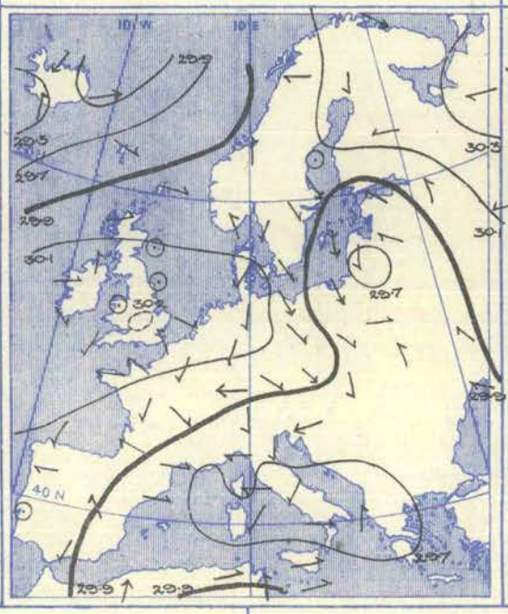
Barometer in morning below 29·2 ins. in a depression off the west of Iceland, and relatively low in large, but shallow, systems of irregular form lying over the Baltic and Italy; above 30·2 ins. off the south-west coast of Ireland, and also over much of Russia. Scarcely any modification taking place in the general situation during day. Low pressure systems showing some tendency to move eastward.

Thursday, 4th November, 1909.

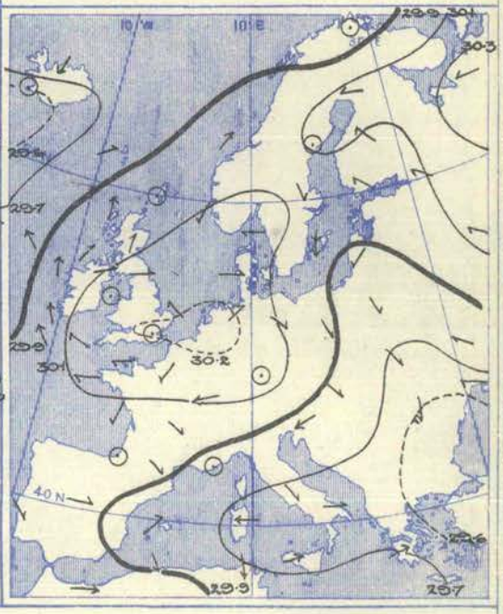
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over large tracts in the south of our area, and in places elsewhere, but very cloudy or overcast in most regions, with a good deal of mist in England, rain in the Hebrides, Finland, and at Stockholm and Skudesnaes, and a thunderstorm at Buda-Pesth and Casa Blanca. Rain later on many shores of the Mediterranean, and also in various parts of central and northern Europe.

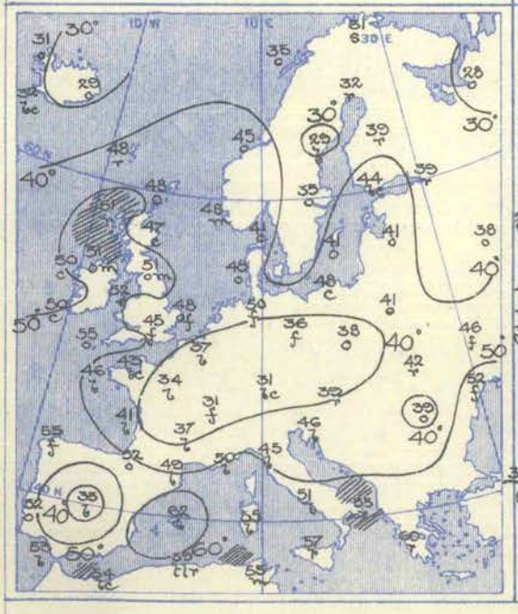
Temperature fallen in most regions. Morning readings below 32° in the north and north-east of Europe, and below 40° at some stations in the central countries. Above 50° in several parts of these Islands and over the Mediterranean, and as high as 67° and 69° respectively at Malta and Athens. Maxima during day below 50° in most parts of Germany and Austria, but above 55° in some parts of these Islands, and between 65° and 70° over a large area in the far south of Europe. Frost at night in some localities in Germany.

Wind in morning showing cyclonic circulations over the Mediterranean and the Baltic region; little force generally, but Northerly current blowing a gale at Wisby. Light anticyclonic airs prevailing over these Islands and the nearer countries of the Continent. Northerly wind blowing a gale at Neu-Fahrwasser later in day, and a moderate breeze from South setting in along our Atlantic seaboard.

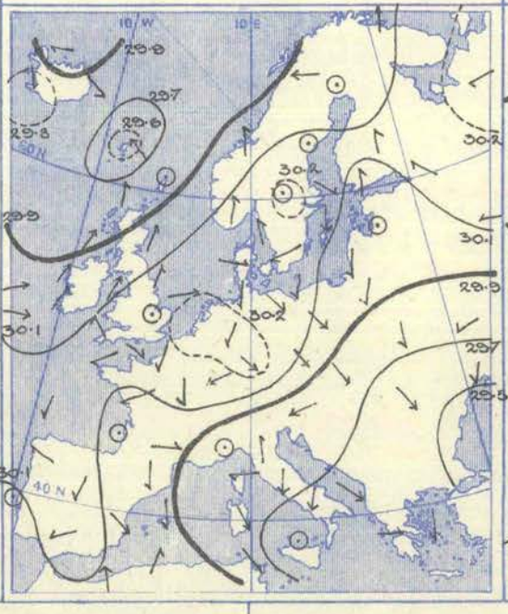
Barometer in morning above 30·3 ins. in the extreme north-east of our area, and above 30·1 ins. in an anticyclonic system extending from the Atlantic across these Islands and the North Sea. Below 29·5 ins. over the greater part of Iceland, and below 29·7 ins. in a depression centred near Memel, and also in a large system of irregular form over Italy and its neighbourhood. Pressure increasing briskly during day in Iceland, but falling slowly in the north and west of these Islands. German depression apparently moving southwards and partially dispersing.

Friday, 5th November, 1909.

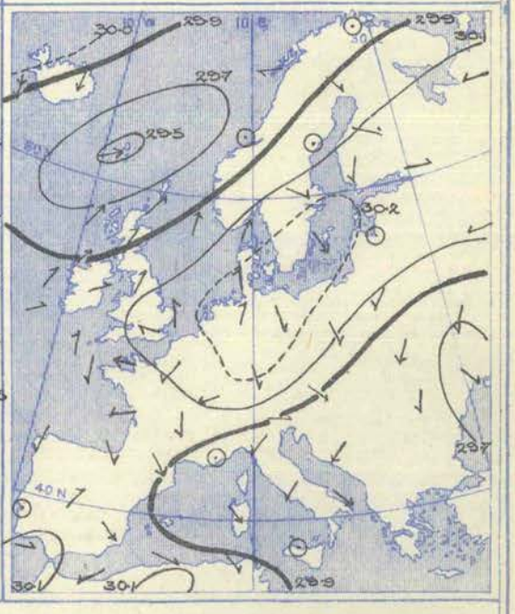
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the major portion of our area, but showery or rainy in Wales, the Hebrides, and also at some places in the south and north-east of Europe, and thundery at Algiers. Some fog and mist prevailing in England, Germany, and at Corunna. A little rain falling later in the west and north of these Islands and in a few localities on the Continent, and as much as an inch at Patras.

Temperature fallen in most districts. Morning readings below 40° over the greater part of the Continent, and below 32° in some inland and northern regions. Above 50° at most stations on the shores of the Mediterranean, and about 60° in places. Maxima during day about 55° in various parts of this country and France, above 60° in the south of France and on the coasts of southern Europe, and as high as 70° at Palma. Thermometer only rising to 48° at Turin, and remaining below that figure in many parts of central Europe. Frost at night in some English localities.

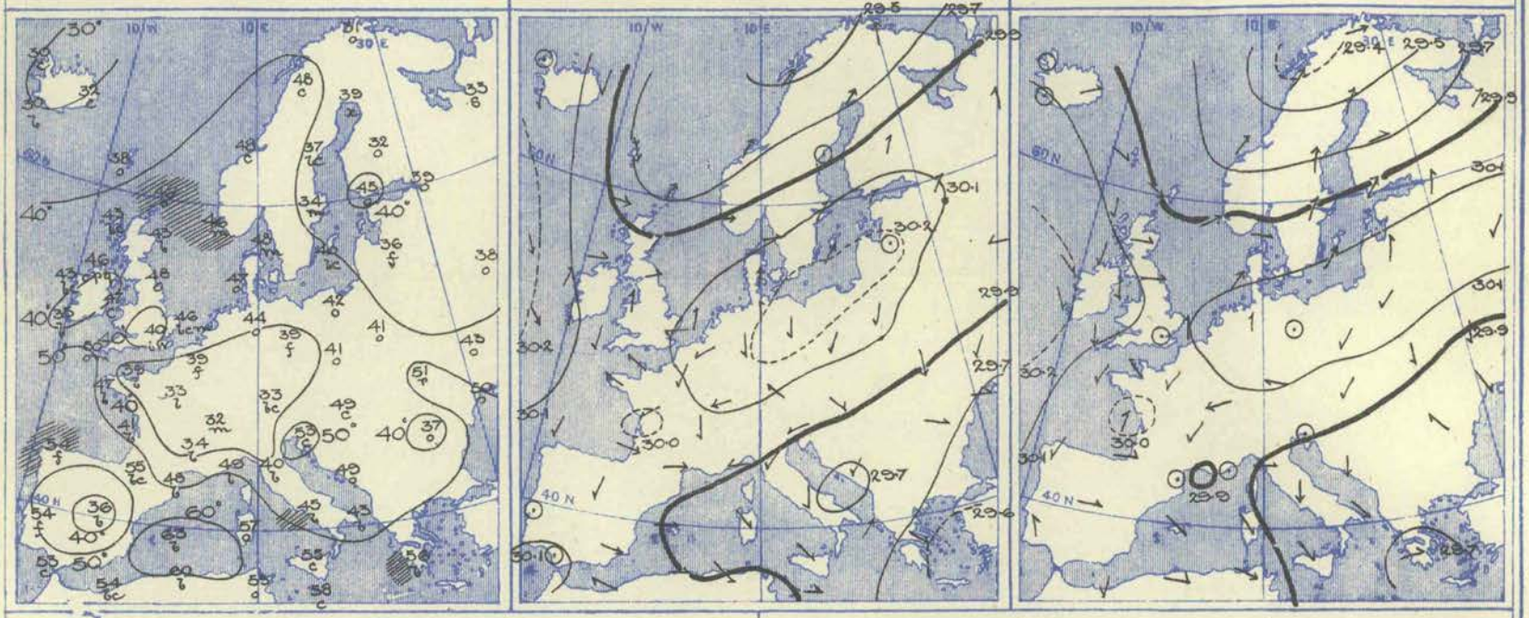
Wind in morning varying a good deal, but mainly Southerly over this country, and between North and North-West over the southern half of our area; fresh to high on our extreme north-west coasts, and strong on some shores of the Mediterranean, but light or moderate in almost all other places. Little change during day; veering somewhat in the north-west of these Islands.

Barometer in morning relatively high in an irregularly shaped band extending from the Bay of Biscay to the White Sea, and low both in the north-west and south east of our area. Not much modification occurring in the general distribution of pressure during day, but a depression off the north of Scotland growing deeper.

Saturday, 6th November, 1909.

Temperature and Weather. 7 a.m.

Barometer and Wind. 7 a.m. 6 p.m.



Weather in morning fair to very fine over most parts of these Islands, and over a large portion of the Continent, but overcast, with rain in places, in some widely scattered localities, and snow falling at Archangel. A little rain later in Iceland and Scotland, and also in Scandinavia, more than an inch at Lisbon, 2·9 ins. at Cape de Garde, and 0·88 in. at Patras. Day very bright over most of this country, but local fogs at night.

Temperature fallen over this country and in many southern regions, risen in northern Europe. Morning readings ranging from about 60° in the extreme south to below 40° over the greater part of our area, to about 32° in central England, the east of France, and in some other districts on the Continent. Thermometer rising to between 50° and 55° in many parts of these Islands during day, but remaining below 50° over the greater portion of Germany and Austria, as well as in many French localities. Maxima about 70° at a few places in the extreme south. Frost at night in various parts of Ireland and England.

Wind in morning light from the Northward in the south-west of these Islands, light to fresh or strong from West or South-West over the north-west of our area generally, but blowing a gale from the North-Westward at Thorshavn. An irregular cyclonic circulation prevailing in the south of Europe and over the Mediterranean, fresh to high in places. Veering to the Northward by evening in the west and north-west of these Islands and decreasing somewhat in force. Gale subsiding at Thorshavn.

Barometer above 30·1 ins. off the west of Ireland, and also in a broad band extending from the north-east of France to the north of Russia. Below 29·5 ins. in a depression over the north of Norway, below 29·6 ins. in a secondary near Shetland, and also in the extreme south-east of Europe. Pressure increasing in Ireland and Scotland later, and decreasing over Scandinavia, and another fall setting in over Iceland. Not much change taking place within the high pressure band on the Continent.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90°=E, 180°=S, 270°=W, and 360°=N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Oct. 31st, 9.0 a.m. to 10.27 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	274·3° 81% 56 to 67°, 5	274° 81% 61°, 8	273·8° 81% 61°, 9	**271·4°** 83% 62°, 11				**270°** 90% 63°, 11	1,330	Fair. Gentle to moderate breeze, dying down later. Clouds, Cu. Clock stopped, but re-started.
2	Oct. 31st, 10.7 a.m. to 11.55 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	279° 100% 30°, 7	278° 100% 50°, 12	276° 95% 60°, 14	**272°** 100% 70°, 15				**269°** 100% 80°, 16	1,400	Overcast. Stratus. Rain at times.
3	Nov. 2nd, 3.50 p.m to 6.5 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282° 100% 292°, 3	281·4° 100% 307°, 6	281·2° 100% 311°, 7	279·8° 100% 335°, 15	279° 96% 335°, 15			278·8° 75% 335°, 14	1,815	Overcast and dull. Light breeze. Dense mist. Clouds, Ni.
4	Nov. 3rd, 7.15 p.m. to 8.12 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	282·4° 100% Calm.	281·5° 100% Calm.	281° 100% 48°, 1					279·8° 100% 49°, 2	685	Overcast and dull. Clouds, Ni. Dense mist. Calm.
5	Nov. 4th, 10.40 a.m. to noon.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	283° 100% Calm.	281·8° 100% Calm.	281° 100% 190 to 232°, 2	275·2° 100% 208°, 2				274·9° 100% 208°, 2	1,015	Overcast and dull. Clouds, Ni. Dense mist early, clearing later. Calm.
6	Nov. 4th, 10.35 a.m. to 4.35 p.m.	Aldershot. 80 m.	Temperature Humidity .. Wind	283° 96%	100%	280° 100%					277° 100%		Misty overhead. Overcast.
7	Nov. 5th, 9.50 a.m. to 1.10 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281° 72 to 92% 169°, 3	280° 73 to 90% 180°, 6	279·6° 74 to 89% 183°, 7	277° 82% 214to 235°,14	275° 80% 235°, 15	273·5° 75% 245°, 15		**272°** 74% 245°, 16	2,400	Fair to overcast. Light to gentle breezes. Clouds, Cu., Cu.-Ni. and Ni.
8	Nov. 6th, noon to 1.0 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	280° 97% Calm.	279·2° 97% Calm.	278·7° 97% 350°, 1					**273°** 97% 332°, 2	930	Dull and wet. Calm. Slight mist. Clouds, Cu. and Ni.

APPARATUS USED IN THE KITE OR CAPTIVE BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8
No. of Kites..	1	1	1	1	1	—	2	1
Area of Surface (sq. metres) ..	7·6	7	7·6	—	—	—	15·2	—
Capacity of Balloon (cub. metres)	—	—	—	3·5	3·5	—	—	3·5
Length of Wire (metres)	2,000	2,000	3,000	400	900	—	4,000	1,000

63, Victoria Street, London, S.W. *November 10th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. Vol. XXVI. (New Series.) } No. 45. FORTY-FIFTH WEEK, SUNDAY NOVEMBER 7TH TO SATURDAY NOVEMBER 13TH, 1909. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—General Remarks.

Weather.—Although sometimes rough and squally, the weather was upon the whole fair over the Kingdom generally, and often very bright. Very heavy rain was, however, experienced in the north-east of Scotland on Thursday and Friday. Thunder and lightning occurred at Fort William on Friday evening and thunder at Wick on Saturday. Lightning was seen at Tunbridge Wells on Thursday and at Morpeth on Saturday. Some snow and sleet showers fell in some northern localities.

Temperature was below the average, the deficit being about 4° in England S.W. and Ireland S., and 4°6 in England S.E. The highest of the minima were registered at most stations on the 9th or 12th and ranged from 57° in the Midland Counties and Ireland S. to 53° in several western and northern districts. The lowest of the minima, which occurred on rather irregular dates, but generally on the 8th or 9th, varied from 18° in Scotland E. (at Balmoral and West Linton on the 8th) and 21° in England S.W. to 27° in England N.E. and 35° in the English Channel. The lowest grass readings reported were 12° at Southport, Hereford, and West Linton, 14° at Crathes, and 15° at Balmoral, Cambridge, and Burnley.

Mean Temperature of the Sea.—At nearly all stations the water was colder than during the corresponding week of last year. The actual means ranged from 54°·2 at Plymouth and above 52°·5 at Newquay and Salcombe to 44°·4 at Kirkwall and to 43°·1 at Pennan Bay.

Rainfall was less than the average except in Scotland N. where there was a large excess. At Wick, as much as 2·10 inches fell on Thursday and 1·25 inch on Friday. On the same days 1·43 inch and 1·06 inch were recorded at Glencarron, following 1·08 inch on Tuesday.

Bright Sunshine exceeded the normal, the excess being very striking over England. The percentage of the possible duration ranged from 53 in England S.E., 52 in England E. and 47 in England S.W. to 35 in Scotland W., 34 in Ireland S. and 20 in Scotland N.

Barometer and Wind.—Early in the week an Atlantic anticyclone extended over these Islands, but this soon began to recede southward and south-westward, while depressions appeared off the north and north-east of Scotland and some secondary disturbances over England and Ireland. The low pressure system that occupied the North Sea region towards the end of the week underwent much change in form and intensity before it finally passed away to the eastward. Except during the early days of the period the wind was generally fresh or strong to high from between West and North-West, and gale force was attained on Friday over a large area. A gale from the West was also experienced at some stations in the north of Scotland on Tuesday.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 364.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Very heavy	Moderate	Very light	Light	Very light	Very light	Moderate	Light	Very light	Light	Light	Light
	Sunshine ...	Abundant	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant	Very abundant	Very abundant	Abundant	Abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 10 weeks from Sept. 5th 1909.	Warmth ...	2 * 4	3 * 4	2 * 4	3 * 3	3 * 3	3 * 4	3 * 4	3 * 4	3 * 4	4 * 4	4 * 4	3 * 3
	Rainfall ...	4 * 5	4 * 2	0 * 3	2 * 1	2 * 2	4 * 2	3 * 3	3 * 4	3 * 3	3 * 5	4 * 6	4 * 3
	Sunshine ...	3 * 2	3 * 3	1 * 4	1 * 6	1 * 4	1 * 2	3 * 5	3 * 1	2 * 3	3 * 2	3 * 2	2 * 4

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

8212 450 Wy. & S. Ltd. 11—09.

TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-FIFTH WEEK—November 7th to November 13th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	53	25	47·5	35·0	41·3	− 2·2	15	− 9	29	+17	6	+ 1	2·41	+1·15	12	+ 2	20	+ 4
Eastern																		
1. SCOTLAND, EAST	55	18	47·8	33·6	40·8	− 2·0	16	− 8	34	+17	4	0	0·60	−0·16	19	+ 5	31	+ 9
2. ENGLAND, N.E.	55	27	49·1	34·9	42·0	− 2·6	20	− 9	20	+10	2	− 2	0·06	−0·52	28	+ 14	45	+23
3. ENGLAND, EAST	54	26	49·1	35·5	42·3	− 2·8	29	− 4	18	+ 7	3	− 1	0·07	−0·46	33	+ 16	52	+25
4. MIDLAND COUNTIES ..	57	23	48·8	33·5	41·1	− 3·2	19	− 12	34	+21	2	− 2	0·07	−0·56	27	+ 14	43	+22
5. ENGLAND, S.E.	55	22	49·5	35·1	42·3	− 4·6	31	− 10	19	+12	3	− 1	0·09	−0·68	34	+ 18	53	+28
Western																		
6. SCOTLAND, WEST	54	24	48·7	35·4	42·1	− 2·8	28	− 2	18	+10	4	− 1	0·87	−0·45	21	+ 10	35	+16
7. ENGLAND, N.W.	53	23	48·1	37·5	42·9	− 2·8	25	− 8	13	+ 6	4	− 1	0·28	−0·59	23	+ 11	37	+18
8. ENGLAND, S.W.	55	21	49·6	37·2	43·4	− 4·0	30	− 10	13	+ 8	3	− 2	0·14	−0·94	30	+ 15	47	+23
9. IRELAND, NORTH	53	22	49·5	36·8	43·2	− 2·1	30	− 2	15	+ 7	6	+ 1	0·44	−0·52	21	+ 6	33	+10
10. IRELAND, SOUTH	57	22	50·1	35·3	42·7	− 4·1	33	− 8	19	+12	5	0	0·35	−0·68	22	+ 5	34	+ 8
11. ENGLISH CHANNEL	55	35	52·9	43·8	48·4	− 2·4	45	− 17	0	0	4	− 1	0·23	−0·76	24	+ 5	36	+ 7

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 10 Weeks, September 5th to November 13th, 1909.

0. SCOTLAND, NORTH	68	20	*	*	*	*	439	− 38	72	+17	50	0	11·98	+0·30	216	+ 30	28	+ 4
Eastern																		
1. SCOTLAND, EAST	70	16	*	*	*	*	451	− 58	90	+18	44	+ 3	7·15	+0·62	221	+ 1	29	0
2. ENGLAND, N.E.	70	23	*	*	*	*	603	+ 2	47	+14	42	+ 5	4·47	−1·24	207	− 36	27	− 5
3. ENGLAND, EAST	74	26	*	*	*	*	720	+ 33	29	−10	44	+ 8	5·89	+0·49	225	− 48	29	− 6
4. MIDLAND COUNTIES	71	21	*	*	*	*	631	+ 3	65	+15	45	+ 9	5·88	+0·10	204	− 34	26	− 4
5. ENGLAND, S.E.	71	22	*	*	*	*	769	+ 1	29	+ 4	45	+10	9·70	+3·10	254	− 21	33	− 3
Western																		
6. SCOTLAND, WEST	70	20	*	*	*	*	558	− 11	66	+28	40	− 2	10·68	−0·17	216	− 6	28	− 1
7. ENGLAND, N.W.	69	21	*	*	*	*	613	− 30	41	+17	42	+ 2	8·90	+0·79	226	0	29	0
8. ENGLAND, S.W.	72	16	*	*	*	*	721	− 10	24	+ 6	45	+ 4	9·70	+0·59	255	− 7	33	− 1
9. IRELAND, NORTH	68	22	*	*	*	*	597	0	49	+20	47	+ 1	8·87	+0·56	231	+ 12	30	+ 1
10. IRELAND, SOUTH	72	22	*	*	*	*	689	+ 4	42	+17	50	+ 9	8·28	+0·20	267	+ 13	34	+ 2
11. ENGLISH CHANNEL	74	35	*	*	*	*	956	+ 19	0	0	46	+ 2	8·36	+0·46	291	− 31	37	− 4

THE YEAR.—Aggregates, &c., for the Period of 45 Weeks, January 3rd to November 13th, 1909.

0. SCOTLAND, NORTH	72	13	*	*	*	*	1867	−164	607	− 5	214	+ 4	37·54	−5·55	1097	+ 26	27	+ 1
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	2046	−233	763	+ 71	181	+ 7	28·61	+2·51	1240	− 32	31	− 1
2. ENGLAND, N.E.	85	14	*	*	*	*	2526	− 25	627	+119	164	+ 7	22·47	+1·30	1322	− 55	33	− 1
3. ENGLAND, EAST	85	12	*	*	*	*	2817	−130	583	+ 23	157	+15	21·18	+0·87	1524	+ 24	38	+ 1
4. MIDLAND COUNTIES	86	8	*	*	*	*	2726	−138	707	+124	160	+ 9	22·88	+0·34	1373	+ 37	34	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	2950	−237	511	+105	158	+13	27·07	+4·36	1636	+117	41	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2339	−133	511	+ 48	174	− 8	39·68	−0·02	1343	+ 39	33	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2537	−173	507	+ 97	171	+ 3	30·47	+1·15	1427	+104	35	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2833	−190	414	+ 95	169	+ 3	30·04	−1·72	1587	+108	40	+ 3
9. IRELAND, NORTH	78	14	*	*	*	*	2514	− 70	364	− 10	202	+ 4	30·62	−1·55	1195	− 15	30	0
10. IRELAND, SOUTH	81	15	*	*	*	*	2932	− 39	307	+ 23	189	+13	29·31	−3·95	1392	+ 30	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	3516	− 7	151	+ 42	157	−20	24·23	−2·35	1878	+ 80	47	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
‖ Dew.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

III.—DATA from which the SUMMARY in Table II. has been calculated.

Districts	Names of Stations	Temperature. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*50*	*8th*	*32*	*13th*	*43·4*	*34·5*	*39·0*	—	*4*	*23*	*7*	*1·15*	—	*6·1*	—	*11*	—	*Balta Sound.*
	a Sumburgh Head ..	49	8th	32	13th	43·1	36·4	39·8	− 3·8	3	21	7	1·39	+ 0·47	8·9	− 2·9	*16*	− 5	Deerness.
	a Stornoway ..	52	11th	33	8th, 13th	47·6	37·6	42·6	− 1·3	23	12	6	2·66	+ 1·33	15·4	+ 3·0	27	+ 5	Stornoway.
	a Castlebay, Barra Isd.	*53*	*8th*	*32*	*8th, 13th*	*49·6*	*42·0*	*45·8*	+ *0·3*	*27*	*0*	*6*	*0·62*	—	*15·5*	—	*26*	—	*Castlebay.*
	a Wick	48	9th	30	8th	44·7	34·6	39·7	− 3·7	8	28	6	3·92	+ 3·27	*	*	*	*	*
	p Strathpeffer ..	53	9th	26	13th	50·4	34·1	42·3	− 0·2	35	22	6	1·58	+ 0·93	11·5	− 2·2	20	− 4	Strathpeffer.
	p Glencarron	52	12th	29	8th, 13th	48·8	34·7	41·8	− 0·4	19	31	6	4·43	+ 2·33	*	*	*	*	*
	p Fort Augustus S	53	12th	25	8th	48·5	33·3	40·9	− 2·3	18	35	4	0·82	− 0·17	11·1	+ 3·1	19	+ 5	Fort Augustus.
	p Fort William S	52	9, 11, 12th	26	8th	49·1	34·5	41·8	− 1·9	20	31	5	2·10	+ 0·27	*	*	*	*	*
1. SCOTLAND E.	*p* Gordon Castle S	54	9th	31	8th	48·7	34·8	41·8	− 1·6	19	30	7	1·99	+ 1·31	*5·6*	—	*10*	—	*Gordon Castle.*
	a Nairn	52	9th, 11th	26	8th	47·3	34·4	40·9	− 1·9	15	31	6	0·92	+ 0·44	15·3	—	26	—	Nairn.
	a Aberdeen	55	9th	29	8th	48·6	34·6	41·6	− 2·0	18	31	6	0·85	+ 0·17	16·6	+ 1·0	28	+ 2	Aberdeen.
	a Balmoral .. S	52	11th	18	8th	47·3	33·7	40·5	+ 0·5	15	33	5	0·61	− 0·29	17·2	—	29	—	Crathes S.
	p Crieff .. .. S	54	9th, 12th	27	8th, 13th	49·1	33·6	41·4	− 1·6	20	35	2	0·10	− 0·90	24·4	—	41	—	Balruddery
	a Leith	53	9th, 12th	29	8th, 9th	49·1	35·6	42·4	− 2·4	30	18	2	0·02	− 0·43	20·4	+ 7·7	34	+13	Edinburgh.
	a West Linton .. S	49	9th	18	8th	45·0	28·3	36·7	− 4·8	8	50	4	0·27	—	*15·9*	—	*27*	—	*West Linton.*
	p Marchmont .. S	52	9th	27	8th	47·4	34·1	40·8	− 1·5	15	32	1	0·02	− 0·74	17·6	+ 3·6	29	+ 6	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	53	11th, 12th	27	8th	48·7	33·9	41·3	− 2·7	19	33	4	0·12	− 0·66	26·9	—	44	—	Cockle Park.
	a Shields	54	9th	30	8th, 9th.	49·0	33·0	41·0	− 3·7	20	36	2	0·03	− 0·54	*17·1*	+ *7·2*	*28*	+*12*	*Newcastle.*
	p Durham	52	12th	28	8th	48·3	35·3	41·8	− 1·8	18	28	0	0·00	− 0·60	26·4	+11·7	43	+19	Durham.
	p Rounton .. M	52	12th	27	13th	48·7	34·0	41·4	− 2·0	19	33	4	0·12	− 0·52	*	*	*	*	*
	p Scarborough.. M	55	9th	34	13th	52·0	38·4	45·2	− 0·2	38	10	2	0·13	− 0·49	24·8	—	40	—	Scarborough.
	p York	53	12th	31	8th	50·1	35·0	42·6	− 1·8	34	20	2	0·03	− 0·48	23·6	+11·6	38	+19	York.
	a Spurn Head ..	51	12th	37	9th	48·0	38·3	43·2	− 2·8	24	10	1	0·05	− 0·39	*	*	*	*	*
	a Lincoln	53	12th	31	8th, 9th	48·2	33·3	40·8	− 3·4	17	35	1	0·01	− 0·45	37·0	—	59	—	Skegness.
	a Fulbeck	51	12th	28	8th	48·5	32·5	40·5	− 3·5	18	38	3	0·04	− 0·43	26·8	—	43	—	Rauceby.
	p Cromer													—	*37·5*	—	*60*	—	*Lowestoft.*
	p Hillington .. M	52	12th	27	13th	49·1	32·8	41·0	− 3·3	20	38	4	0·07	− 0·53	31·4	+16·3	50	+26	Cromer.
	a Yarmouth	52	8th, 12th	34	9th, 10th	49·1	38·4	43·8	− 1·7	28	10	4	0·14	− 0·44	34·9	—	55	—	Hillington.
	a Norwich	52	12th	31	9th	48·7	36·6	42·7	− 1·5	28	15	3	0·10	—	*	*	*	*	*
	p Geldeston	53	7th, 12th	31	9th, 13th	50·6	35·2	42·9	− 2·5	35	19	2	0·03	− 0·53	34·1	+17·0	54	+27	Yarmouth.
	p Cambridge	53	12th	26	9th	49·3	33·8	41·6	− 3·2	20	34	1	0·01	− 0·47	31·5	+14·9	49	+23	Geldeston.
	a Felixstowe	*52*	*7th, 12th*	*33*	*9th*	*49·6*	*36·6*	*43·1*	− *3·3*	*30*	*15*	*1*	*0·06*	—	*41·8*	—	*65*	—	Cambridge.
	a Clacton-on-Sea ..	51	7, 8, 12th	32	9th	48·9	36·4	42·7	− 3·5	28	16	2	0·04	—	37·9	—	59	—	*Felixstowe.*
	a Rothamsted ..	53	12th	27	9th	48·1	33·9	41·0	− 3·0	17	33	6	0·17	− 0·48	33·5	+16·7	52	+26	Clacton.
	a Shoeburyness ..	*52*	*12th*	*31*	*9th*	*49·4*	*36·1*	*43·8*	− *3·9*	*30*	*17*	*0*	‖ *0·01*	− *0·44*	*37·0*	—	*58*	—	Rothamsted.
	p Tottenham	54	12th	28	9th	49·0	35·8	42·9	− 2·5	28	15	0	0·00	—	28·9	—	45	—	*Southend.*
3. ENGLAND, E.	*a* Harrogate	51	12th	31	8th	48·0	35·8	41·9	− 1·6	17	26	1	0·06	− 0·61	30·6	—	49	—	Tottenham.
	a Bawtry	57	12th	30	8th	49·3	35·3	42·3	− 2·0	30	19	1	0·02	− 0·41	24·8	+11·7	39	+19	Harrogate.
	p Buxton .. M	*48*	*13th*	*28*	*8th*	*44·3*	*32·9*	*38·6*	− *3·1*	*6*	*33*	*3*	*0·70*	− *0·50*	*23·9*	—	*38*	—	Worksop.
	a Nottingham ..	53	12th	29	7th	49·1	32·7	40·9	− 3·8	20	38	3	0·06	− 0·41	23·4	—	37	—	*Buxton.*
	p Birmingham, Edgbsn	51	12th	32	8th	47·5	36·3	41·9	− 1·6	15	24	2	0·12	− 0·43	12·0	—	19	—	Nottingham.
	a Raunds .. M	53	12th	27	9th	48·9	31·4	40·2	− 3·8	19	42	3	0·06	—	*	*	*	*	*
	a Oxford	54	12th	27	9th	49·4	32·7	41·1	− 3·9	21	38	3	0·03	− 0·53	34·7	+18·7	54	+29	Birmingham.
	a Cheadle .. M	49	7th, 12th	30	9th	47·1	33·7	40·4	− 3·1	14	33	4	0·25	− 0·41	25·7	—	41	—	Oxford.
	p Shrewsbury ..	53	12th	27	8th	49·5	34·3	41·9	− 3·1	21	32	3	0·09	—	*	*	*	*	Sheffield.
	a Hereford .. M	53	12th	26	9th	49·5	33·5	41·5	− 3·2	21	35	3	0·07	− 0·49	*	*	*	*	*
	a Cirencester ..	52	12th	23	9th	48·3	32·3	40·3	− 3·1	18	38	3	0·04	− 0·63	29·0	+13·0	45	+20	Cirencester.
	a Bath	53	12th, 13th	23	9th	50·4	30·0	40·2	− 5·8	24	48	1	0·02	− 0·67	37·8	—	59	—	Bath.
4. MIDLAND COUNTIES.															*35·0*	—	*55*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	*p* Kew	54	12th	28	9th	49·2	35·8	42·5	− 2·9	30	17	3	0·22	− 0·32	25·8	+11·7	40	+18	Kew.
	a Marlborough ..	53	12th	22	9th	49·1	29·2	39·2	− 4·5	20	50	1	0·01	− 0·76	33·8	+18·7	53	+29	Marlborough.
	a Margate	52	12th	35	9th	49·4	40·4	44·9	− 2·1	27	4	2	0·06	− 0·54	30·6	+13·4	48	+21	Margate.
	a Wisley, Surrey ..	54	12th	26	9th	48·6	33·0	40·8	− 5·3	18	36	2	0·10	—	24·5	—	38	—	Wisley.
	a Swarraton .. M	53	12th	22	9th	48·4	31·7	40·1	− 4·3	18	41	3	0·08	− 0·69	39·0	—	60	—	Worthing.
	a Tunbridge Wells M	52	12th	26	9th	47·8	32·9	40·4	− 4·7	16	36	4	0·10	− 0·68	36·3	+18·5	57	+29	Tunbridge Wells.
	a Dungeness	53	12th	29	9th, 10th	50·0	34·0	42·0	− 5·8	22	22	2	0·10	− 0·52	29·1	—	46	—	Littlestone.
	p Hastings	53	12th	34	9th	49·8	37·9	43·9	− 3·6	31	11	3	0·09	− 0·67	*37·3*	+*17·9*	*57*	+*28*	*Hastings.*
	p Southampton ..	55	12th	28	9th	51·0	36·4	43·7	− 3·4	35	16	2	0·04	− 0·73	38·6	+21·1	60	+33	Southampton.
	a Ventnor	54	12th	37	8th	51·2	39·7	45·5	− 3·4	34	6	3	0·11	− 0·52	40·9	+21·6	63	+33	Ventnor.
LONDON	*a Westminster* ..	*54*	*12th*	*30*	*10th*	*49·3*	*35·9*	*42·6*	− *2·9*	*30*	*17*	*1*	*0·01*	− *0·53*	39·1	+20·7	60	+32	Eastbourne.
	a Greenwich	*54*	*12th*	*29*	*9th*	*48·7*	*35·4*	*42·1*	− *3·3*	*28*	*18*	*4*	*0·05*	− *0·50*	*17·7*	+ *9·0*	*28*	+*14*	*Westminster.*
															22·2	+ *9·1*	*35*	+*14*	*Greenwich.*
6.	*p* Laudale	?52	?11th	?28	?13th	?47·8	?35·3	?41·6	− 3·5	16	28	5	3·21	+ 1·36	*	*	*	*	*
	a Poltalloch .. S	52	8, 9, 11, 12	26	8th	48·6	36·3	42·5	− 2·1	27	16	5	1·21	− 0·01	*	*	*	*	*
	p Glasgow	52	9, 11, 12th	29	8th	48·1	36·3	42·2	− 1·8	25	16	4	0·37	− 0·45	16·3	+ 7·2	27	+12	Glasgow.
a, SCOTLAND. W. ..	*p* Rothesay .. S	53	12th	29	8th	49·6	36·9	43·3	− 1·4	31	14	5	0·84	− 0·20	*	*	*	*	*
	a Kilmarnock	50	8th	24	8th	46·1	32·2	39·2	− 4·4	11	38	2	0·69	—	*16·2*	—	*27*	—	*Kilmarnock.*
	a Colmonell .. S	51	8, 9, 11, 12	24	8th	49·8	35·4	42·6	− 1·1	32	18	4	0·62	− 0·56	*	*	*	*	*
	p Dumfries .. S	52	7, 10, 12, 13	24	8th	50·1	36·3	43·2	− 0·9	32	16	2	0·12	− 0·77	*17·7*	—	*29*	—	*Dumfries.*
b, ISLE OF MAN ..	*p* Cally, Gatehouse S	54	10th	25	8th	49·6	31·7	40·7	− 3·2	21	42	4	0·60	0·63	*	*	*	*	*
	p Douglas	51	12th	32	8th, 13th	48·7	37·8	43·3	− 2·9	27	12	4	0·19	− 0·89	26·4	+ 9·9	43	+16	Douglas.
7.	*p* Aspatria	50	9th, 12th	27	8th	47·5	34·8	41·2	− 2·8	15	29	4	0·47	− 0·50	25·1	—	40	—	Hoylake.
	p Newton Rigg ..	50	9th, 12th	28	8th	47·3	32·8	40·1	− 2·4	15	36	2	0·21	− 0·63	25·2	—	41	—	Aspatria.
	p Stonyhurst	50	12th, 13th	29	8th	47·4	35·7	41·6	− 2·2	15	26	4	0·61	− 0·43	22·4	+ 8·7	36	+14	Newton Rigg.
a, ENGLAND, N.W...	*p* Blackpool .. M	51	9th, 12th	26	8th	48·6	36·4	42·5	− 3·3	27	16	4	0·29	− 0·56	22·6	+13·4	43	+22	Stonyhurst.
	p M nch'ster, Prestwich	50	12th	30	13th	45·1	35·5	40·3	− 4·2	9	25	4	0·27	− 0·53	28·5	+14·7	46	+24	Blackpool.
	a Liverpool (Bidston)	52	9th	37	8th	43·4	41·3	44·9	− 0·4	23	2	5	0·13	− 0·52	*16·4*	+ *7·1*	*26*	+*11*	*Prestwich.*
	a Hawarden Bridge ..	53	9th, 12th	32	8th	50·2	38·5	44·4	− 2·1	32	10	5	0·13	− 0·44	*27·5*	—	*44*	—	*Liverpool.*
b, NORTH WALES ..	*p* Llandudno .. M	51	12th, 13th	32	8th	49·5	41·2	45·4	− 2·1	27	2	4	0·18	− 0·57	*25·5*	+*12·6*	*41*	+*20*	*Southport.*
	a Holyhead	52	9th	37	8th	49·3	41·7	45·5	− 2·3	26	1	2	0·13	− 0·81	*26·6*	—	*42*	—	*Rhyl.*
	p Bettws-y-Coed ..	52	12th	27	8th	48·1	37·1	42·6	− 4·8	25	14	5	0·35	—	16·4	+ 2·0	26	+ 3	Llandudno.
8.	*a* Llangammarch Wells	51	12th	21	9th	48·1	30·9	39·5	− 4·1	17	43	4	0·28	—	25·8	—	41	—	Aberdovey.
a, SOUTH WALES ..	*a* Pembroke	53	9th, 12th	37	8th, 9th	50·6	41·7	46·2	− 2·7	31	1	3	0·13	− 0·77	17·3	—	28	—	Bettws-y-Coed.
	a Cardiff	52	12th	29	9th	49·3	36·8	43·1	− 2·2	30	15	3	0·09	− 0·89	21·5	—	34	—	Aberystwyth.
	a Clifton	52	12th	29	9th	49·1	36·9	43·0	− 3·0	28	14	1	0·02	− 0·75	28·4	+11·4	44	+18	Llangammarch Wells.
	a Shaftesbury .. M	50	12th	33	8th, 9th	47·5	35·7	41·6	− 3·4	15	26	1	0·03	− 0·77	36·7	—	57	—	Pembroke.
	a Arlington	51	12th	27	9th	46·9	37·7	42·3	− 3·3	20	12	5	0·38	− 1·00	*30·7*	+*13·2*	*48*	+*21*	*Cardiff.*
	a Cullompton .. M	55	12th	22	9th	51·4	32·0	41·7	− 4·3	26	42	3	0·12	− 0·72	*36·5*	—	*57*	—	*Tenby.*
b, ENGLAND, S.W. ..	*a* Portland Bill ..	54	12th	38	8th	51·4	42·0	46·7	− 2·3	33	0	3	0·17	—	35·9	+16·3	55	+25	*Clifton.*
	p Plymouth	53	12th	28	9th	51·3	36·8	44·1	− 4·3	37	15	2	0·04	− 0·83	33·0	+17·6	51	+27	Newquay.
	p Falmouth	52	12th	37	8th, 9th	50·0	41·4	45·7	− 3·5	28	2	3	0·16	− 0·96	*36·7*	—	*57*	—	Cullompton.
	a Malin Head	51	8, 9, 12th	39	8th	49·1	42·1	45·6	− 0·7	25	0	6	0·60	− 0·14	34·3	+16·3	53	+25	*Weymouth.*
9. IRELAND, N.	*a* Blacksod Point ..	53	9th	35	7th	50·3	41·9	46·1	− 1·4	29	0	6	0·54	− 0·66	37·2	+16·7	57	+26	Plymouth.
a, West.	*p* Markree Castle ..	53	12th	22	8th	50·0	34·7	42·4	− 2·1	33	20	6	0·49	− 0·48	*37·3*	+*19·5*	*57*	+*30*	Falmouth.
	a Birr Castle	52	9th	23	8th	49·3	30·7	40·0	− 4·6	20	45	5	0·70	− 0·05	*	*	*	*	*Torquay.*
b, East.	*p* Armagh	52	10th, 12th	29	8th, 11th	49·2	34·3	41·8	− 2·8	20	32	6	0·11	− 0·55	17·3	+ 2·5	28	+ 4	Markree Castle.
	a Donaghadee	53	12th	32	9th	49·1	37·1	43·1	− 2·9	28	14	5	0·18	− 0·53	*21·3*	+ *5·0*	*35*	+ *8*	*Birr Castle.*
															23·8	+ 8·4	38	+14	Armagh.
10. IRELAND, S.	*p* Dublin, City.. ..	53	9th	30	8th	49·4	37·9	43·7	− 3·1	29	11	3	0·70	+ 0·05	*	*	*	*	*
a, East.	*a* Kilkenny	52	9th. 12th	25	8th	49·3	31·1	40·2	− 4·8	20	43	5	0·24	− 0·50	22·3	+ 3·6	35	+ 6	Phœnix Park.
	a Waterford	57	12th	31	8, 11, 12th	52·0	32·4	42·2	− 4·3	42	27	3	0·05	− 0·87	*	*	*	*	*
	a Birr Castle	52	9th	23	8th	49·3	30·7	40·0	− 4·6	20	45	5	0·70	− 0·05	*	*	*	*	*
	a Foynes	53	9th	30	8th	49·8	39·4	44·6	− 1·9	29	7	7	0·50	− 0·42	21·8	+ 5·0	35	+ 8	Birr Castle.
b, West.	*a* Cahir .. .. M	52	9th	23	8th	48·1	31·2	39·7	− 6·6	17	42	3	0·11	—	*	*	*	*	*
	a Killarney	57	9th	22	8th	51·8	36·4	44·1	− 2·8	38	16	5	0·40	− 0·94	*	*	*	*	*
	a Valencia	54	9th	30	8th, 9th	51·9	39·1	45·1	− 3·7	34	8	6	0·32	− 0·98	20·6	+ 3·2	32	+ 5	Valencia.
	a Roche's Point ..	54	9th	35	8th	50·4	39·4	44·9	− 3·5	31	7	5	0·09	− 0·90	22·8	—	36	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	55	7th	42	10th	52·6	44·9	48·8	− 2·2	48	0	3	0·11	− 0·69	35·6	+15·4	55	+24	Scilly.
	a Jersey, St. Aubins ..	54	9th, 12th	35	9th	52·9	41·0	47·0	− 3·3	39	3	7	0·41	− 0·52	16·8	− 4·0	26	− 6	St. Heliers.
	a Guernsey	55	7th	43	9th	53·1	45·4	49·3	− 1·1	51	0	2	0·18	− 0·86	18·5	+ 1·0	29	+ 2	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 37·2 hrs.* (+*18·0 hrs.*), *57 %* (+*28 %*); *Bournemouth, 41·5 hrs., 64 %*; *Bognor, 41·5 hrs., 64 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	41·1	—
	— —				
	— —				
1.	Aberdeen	—	—	—	45·7
	Crathes	3	14	42·1	46·0
	Balmoral	4	15	—	—
	West Linton	6	12	—	—
	Marchmont	5	24	41·1	—
2.	Cockle Park	5	26	40·2	45·3
	Durham	4	21	—	—
	York	—	—	45·8	49·6
	Hull	3	26	44·0	49·9
	Lincoln	—	—	44·0	49·6
	Rauceby	5	26	45·1	50·6
3.	Norwich	4	22	—	—
	Yarmouth	—	—	44·4	51·0
	Lowestoft	2	26	45·4	50·7
	Cambridge	7	15	44·3	50·8
	Clacton-on-Sea	4	27	47·3	52·1
	Southend	5	26	46·9	—
	Tottenham	2	26	—	51·8
4.	Harrogate	3	25	44·9	46·9
	Huddersfield	4	24	43·8	48·4
	Buxton	5	22*	—	—
	Sheffield	5	22	44·8	49·3
	Nottingham	5	24	43·1	48·5
	Birmingham	5	22	44·1	49·2
	Oxford	5	22	—	—
	Hereford	7	12	—	—
	Cirencester	?	?	—	—
5.	Margate	6	32	46·6	50·2
	Greenwich	3	25	—	—
	Westminster	4	29	—	—
	Kew	4	23	44·5	51·1
	Canterbury	5	25	43·9	48·9
	Tunbridge Wells	5	22	42.6	—
	Wisley	5	22	43·5	50·1
	Worthing	2	26	44·8	52·0
	Portsmouth	3	20	45·8	52·1
6.	Glasgow	5	18	—	—
	Rothesay	—	—	—	46·5
	Colmonell	3	21	—	—
	Dumfries	4	21	42·7	47·0
	Douglas	1	26	—	—
7.	Aspatria	4	17	—	—
	Newton Rigg	4	17	43·6	47·0
	Burnley	5	15	42·8	47·8
	Southport	4	12	43·3	47·8
	Manchester City	3	24	43·9	50·2
	Bettws-y-Coed	1	27	43·7	48·4
8.	Llangammarch Wells	4	17	44·4	50·0
	Cardiff	4	22	44·6	50·3
	Clifton	3	26	—	—
	Bath	—	—	45·8	51·9
	Plymouth	4	19	47·7	—
9.	Armagh	4	24	44·9	49·0
	Markree	3	18	45·5	50·3
10.	Dublin, Trin. Coll.	4	24	44·9	49·3
11.	Guernsey, Brooklyn	0	33	49·2	54·2

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	48	47	47·3
	Kirkwall	45	43	44·4
	Wick	50	49	49·4
SCOTLAND, E.	Cromarty	47	44	45·4
	Pennan Bay	44	42	43·1
	Aberdeen, Cove Bay	48	47	47·7
ENGLAND, N.E.	Burnmouth, Berwick	47	44	44·9
	Scarborough	49	44	46·5
ENGLAND, E.	Shipwash Lightship	52	49	49·5
	Margate‡	51	47	48·8
ENGLAND, S.E.	Eastbourne‡	52	49	50·3
SCOTLAND, W.	Lamlash	50	48	49·2
	Ballantrae	48	47	47·3
ENGLAND, N.W.	Port Erin	52	50	50·9
ENGLAND, S.W.	Newquay	54	52	52·6
	Plymouth‡	56	53	54·2
	Salcombe	54	52	52·7
IRELAND, N.W.	Sheephaven	49	48	48·5
	Teelin	52	48	49·4
IRELAND, S.W.	Cleggan	51	48	49·6
	Seafield	52	49	50·8
IRELAND, E.				

‡ Only one observation each day.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; →→ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

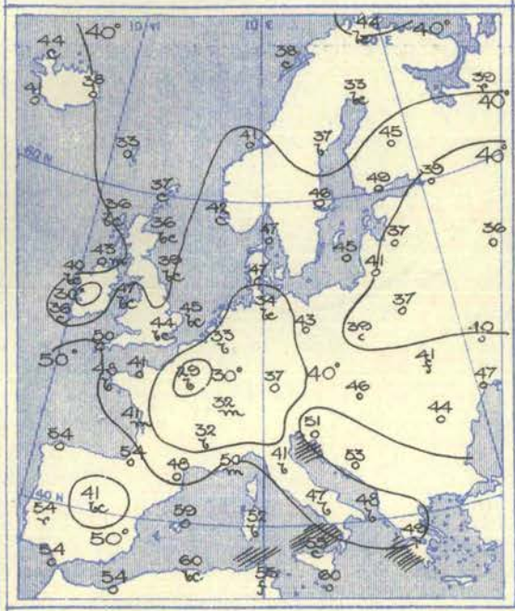
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

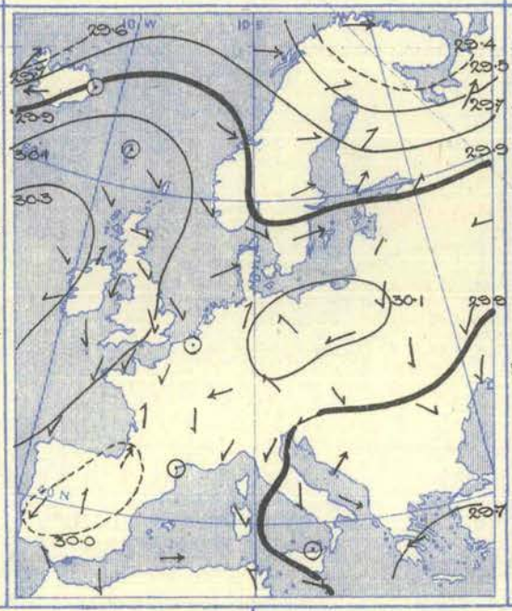
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 7th November, 1909.

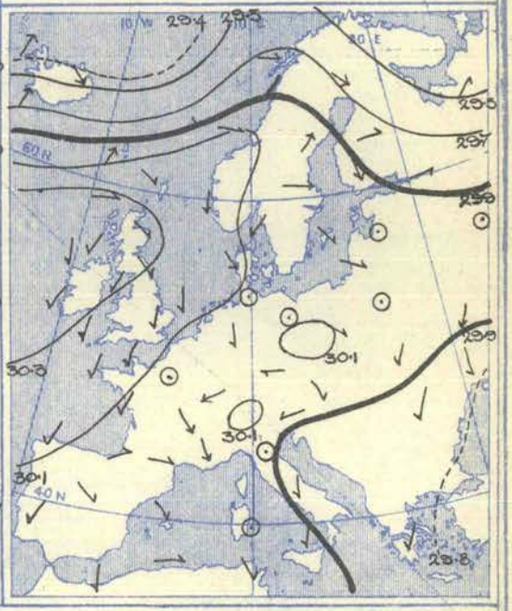
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to very fine and bright over the greater portion of our area, but cloudy or overcast in some localities, and rainy at Lisbon, Patras, Cracow, Helsingfors, and Archangel, as well as at Pembroke and Castlebay. Rain falling later in the north-east of France, at some stations in the far north of Europe, and on some shores of the Mediterranean. Lightning seen at Dover.

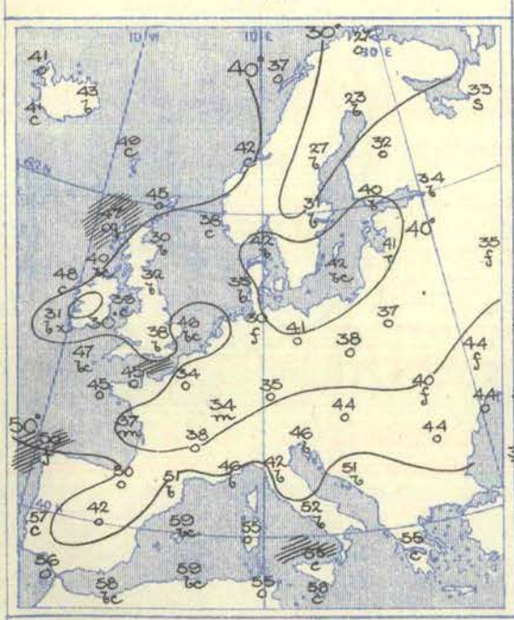
Temperature changed rather irregularly; fallen over Scotland and Norway. Morning readings below 40° over a very large portion of our area, and below 32° in central Ireland and in the neighbourhood of Paris. Above 50° on several shores of the Mediterranean, and as high as 60° at Algiers and Malta. Maxima during day less than 50° in most parts of these Islands, the Netherlands, central Europe, and at some French stations, and only 51° at Turin. Above 60° very generally in the far south, and as high as 72° at Algiers. Frost at night in many parts of this country.

Wind in morning light from some Northerly point at nearly all our own stations, and moderate to strong from between North-West and South-West over the Scandinavian region; light and rather variable over all the central and southern countries. A strong to high wind from South and South-West prevailing in Iceland. Very little change during day.

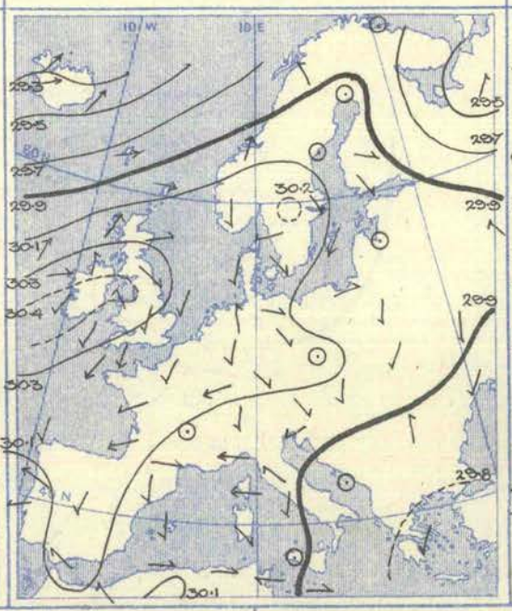
Barometer in morning above 30·3 ins. on the Atlantic off Ireland, and relatively low in a band extending from France to central Russia. Below 29·6 ins. in the north-west of Iceland, and below 29·5 ins. in the north of Scandinavia. Pressure increasing steadily over these Islands and the North Sea during day, but falling briskly over the Icelandic region, and a large depression travelling eastwards towards Norway.

Monday, 8th November, 1909.

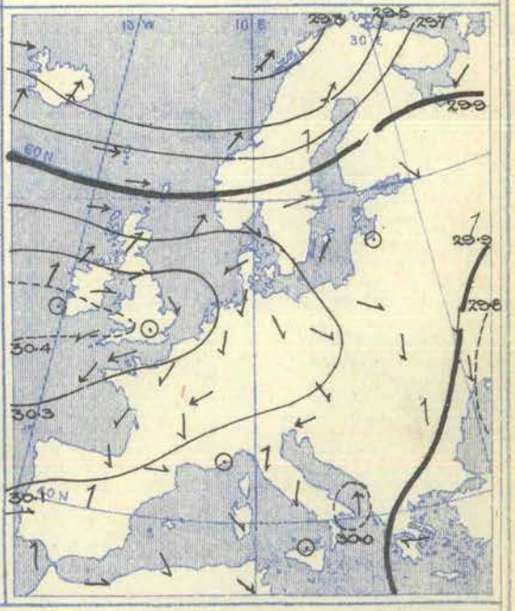
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rather variable; fair to fine over most of our area, but overcast in several localities, with passing showers or steady rain in places, and snow at Archangel. Slight rain falling later in the west and north of these Islands, moderate amounts in Scandinavia and in a few other regions on the Continent, and as much as 2·0 ins. at Lisbon.

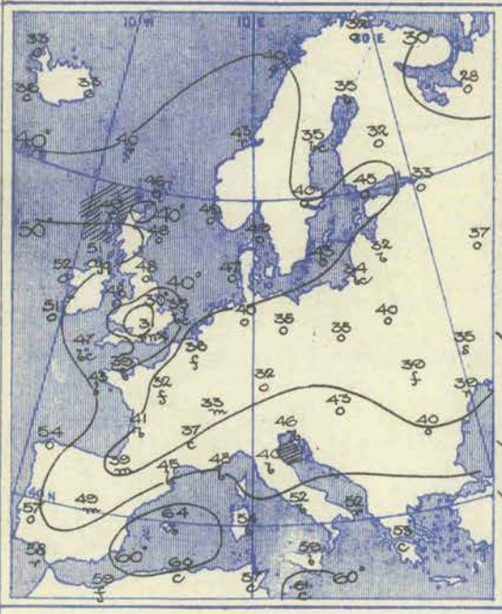
Temperature fallen over these Islands and a large portion of the Continent. Morning readings below 32° in some parts of this country and most of Sweden, and below 40° over the major portion of our area. Above 50° at most stations in the Mediterranean region, and nearly 60° in places. Thermometer falling to rise to 50° during day over the northern half of our area generally, and only touching 50° at Turin, but exceeding 60° in the southern regions, and reaching 70° in Algeria. Sharp frost at night in the English Midlands; minimum temperature 23° at Bath.

Wind in morning South-Westerly over the north-west of our area, strong to a gale between Scotland and Iceland. Rather variable elsewhere, but mainly between North-West and North-East, and light to moderate in force. Backing over England and Ireland during day, and increasing to the force of a high wind or gale along the west and north-west coasts of Norway. Little change elsewhere.

Barometer in morning 30·1 ins. to above 30·4 ins. in an anticyclonic system extending from the Atlantic across the North Sea to the Baltic. Below 29·3 ins. in a depression lying to the north of Iceland, and below 29·5 ins. in another over the White Sea and its vicinity. Former disturbance moving eastward during day and causing a rapid fall of the barometer in Norway, and the latter travelling away beyond our area. Gradient for Westerly winds becoming more pronounced in the north of these Islands.

Tuesday, 9th November, 1909.

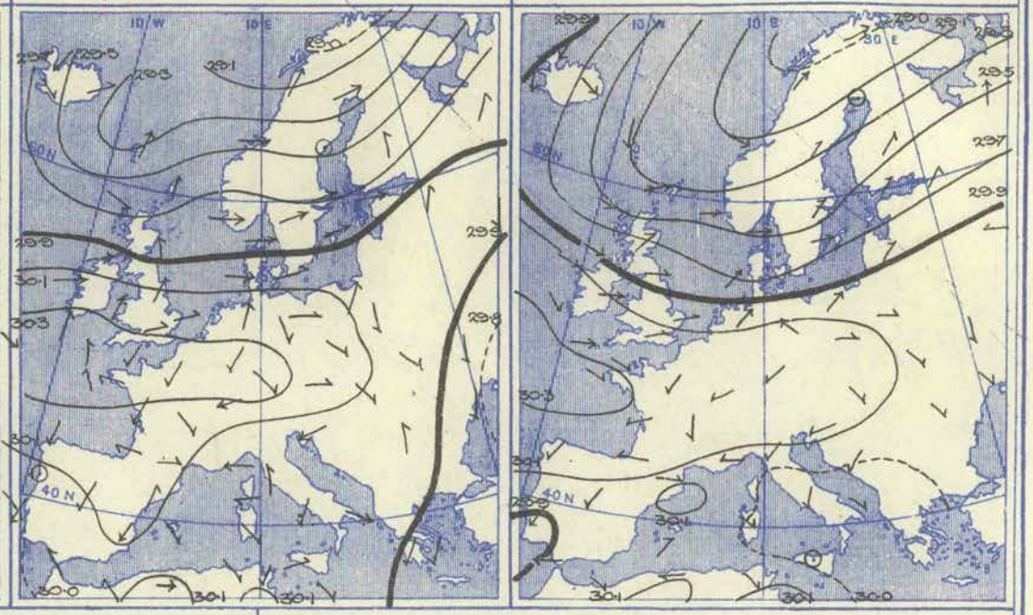
Temperature and Weather. 7 a.m.



Weather in morning cloudy or overcast over a considerable area, with rain in a few regions, but fair or fine generally. Some rain later over the greater part of this country and the north of France, as well as in various districts in Russia and Scandinavia, and as much as 1·4 in. at Lisbon.

Temperature risen in the west and north of these Islands and the Scandinavian region, fallen or changed irregularly elsewhere. Readings in morning 24° at Bath, and below 32° over central England generally, as well as in the north of Russia. Below 40° over the major portion of the Continent, but above 50° in the north-west of the United Kingdom and on most shores of the Mediterranean, and above 60° at Malta and Palma. Maxima during day about 60° in Italy and the south of France, and nearly 70° in Algeria; about 50° in these Islands and the north of France, but not much above 40° at several stations in central Europe.

Barometer and Wind. 7 a.m. and 6 p.m.

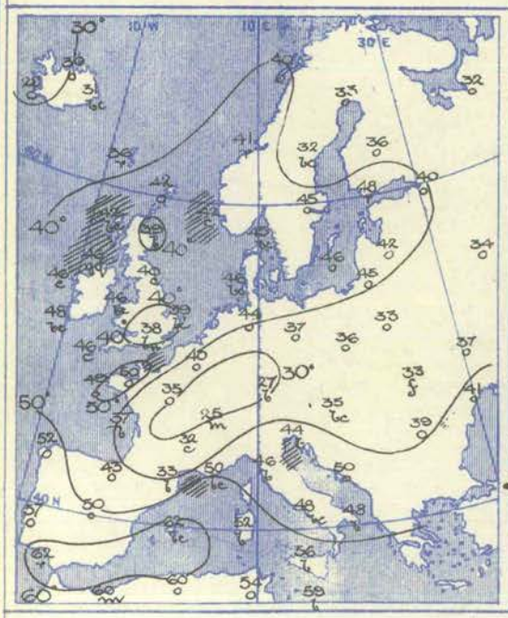


Wind in morning fresh or strong to high from the Westward in the north of this country and throughout Scandinavia, and light or moderate from that quarter over England and the North Sea. Light and rather variable airs prevailing over the central and southern countries. Increasing to a gale later on the north coast of Scotland, and freshening somewhat over these Islands generally.

Barometer in morning above 30·3 ins. in an anticyclonic band extending from the Atlantic to central Europe, and relatively high between that region and northern Russia. Below 29·0 ins. in a large disturbance off the north of Norway, and below 29·3 ins. in a secondary near Shetland. A shallow depression of irregular form shown over Italy and its vicinity. Pressure increasing very briskly during day in Iceland, but decreasing in these Islands, over the North Sea, Denmark, Scandinavia, and the Baltic region.

Wednesday, 10th November, 1909.

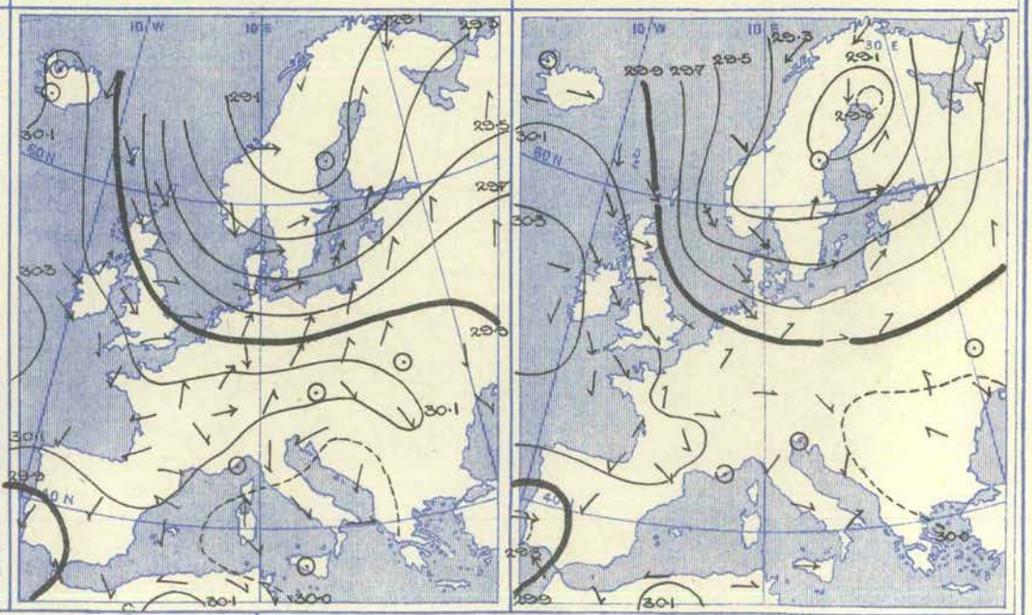
Temperature and Weather. 7 a.m.



Weather in morning fair to fine and bright at most places in the southern half of our area, and in some localities further north, but a good deal of cloud prevailing generally, with rain or passing showers at a few stations. Rainy also at San Fernando and Casa Blanca. Small or moderate quantities of rain experienced later at various places both in the north and south of Europe.

Temperature risen over England, the Netherlands, and the north of France, fallen generally elsewhere. Morning readings ranging from about 60° at some places in the extreme south to below 50° over our area as a whole, and to below 32° in the east of France and the adjacent portion of Germany. Rising subsequently to about 50° in these Islands and a large part of France, but remaining below it over central Europe, and only rising to 39° at Cassel. Maxima above 60° in the far south, and as high as 70° and 73° at San Fernando and Tunis respectively. Slight frost at night over the English Midlands.

Barometer and Wind. 7 a.m. and 6 p.m.

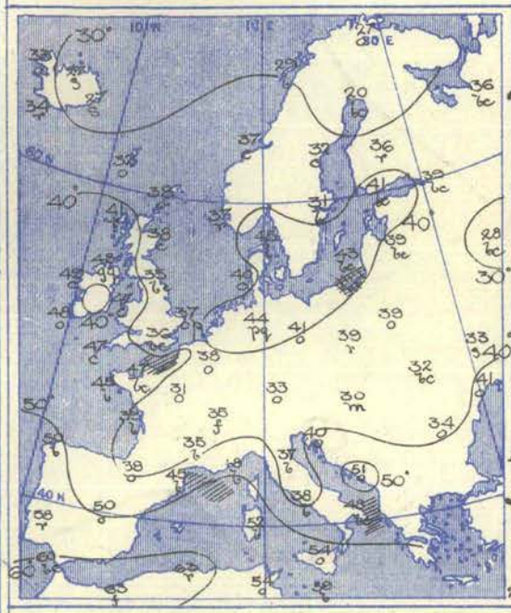


Wind in morning showing a very extensive cyclonic circulation over the northern and north-western countries. Westerly and South-Westerly currents blowing a gale on the west coast of Norway and over the Gulf of Finland, and Westerly current fresh to high over these Islands and the North Sea. A partial cyclonic movement of moderate force prevailing in the south-west of our area. Veering to the North-Westward later over this country and the North Sea, and increasing to a strong gale at Skudesnacs. Decreasing in force over the Baltic and its vicinity.

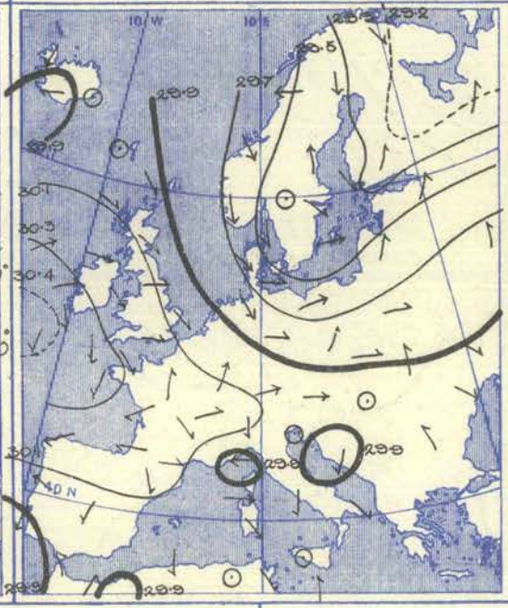
Barometer in morning above 30·2 ins. over the Bay of Biscay, the south-west of Ireland, and the greater part of France, and relatively high in a band extending thence to the Black Sea. Below 29·0 ins. in a depression centred over northern Scandinavia, and relatively low in other systems in the south and south-west of our area. Northern depression travelling eastwards during day, and pressure increasing briskly over Scotland. Gradient growing steep by evening between Shetland and Norway. A fresh fall of the barometer setting in over Iceland.

Thursday, 11th November, 1909.

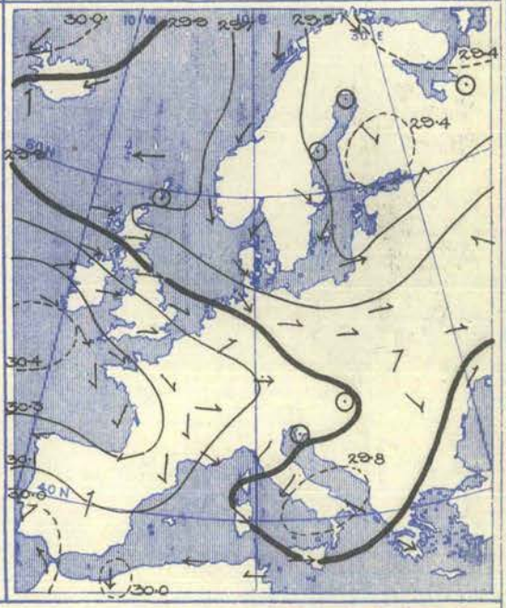
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying greatly over the northern half of our area; fine in many localities, but overcast or rainy in others. Generally fair to very fine over the Mediterranean and southern Europe, but rain falling at Lisbon and Leghorn. More than 2 ins. of rain falling at Wick later, about an inch at Stornoway, slighter amounts in most other parts of these Islands, and in various places on the Continent.

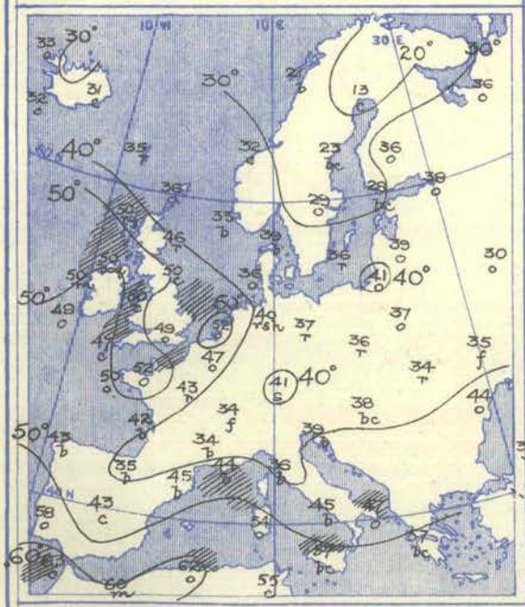
Temperature risen in Germany and Austria, fallen in most other regions. Morning readings 32° at some stations in central England, and below it in some parts of Sweden and Russia, as well as in some other localities on the Continent. Below 40° over the mainland of Europe generally and also at Rome and Pesaro, but above 60° at various places on the southern shores of the Mediterranean. Thermometer remaining below 50° during day in nearly all parts of central Europe, the east of France, and north of Italy, but touching or exceeding that figure in most parts of these Islands, and rising to 60° and above over most of the Mediterranean region. Highest value 72° at San Fernando. Frost at night at some Italian stations.

Wind in morning fresh to high from between North and North-West over the North Sea, the Netherlands, and Denmark, moderate to strong from the Westward over the Baltic and Germany, and light or moderate from the South-Westward over most of Russia. A moderate to fresh cyclonic circulation prevailing over the Gulf of Genoa and its vicinity, and light to fresh or strong North-Easterly breezes over the Spanish Peninsula. Backing a few points and increasing in force along our western and north-western coasts by evening, but little other change.

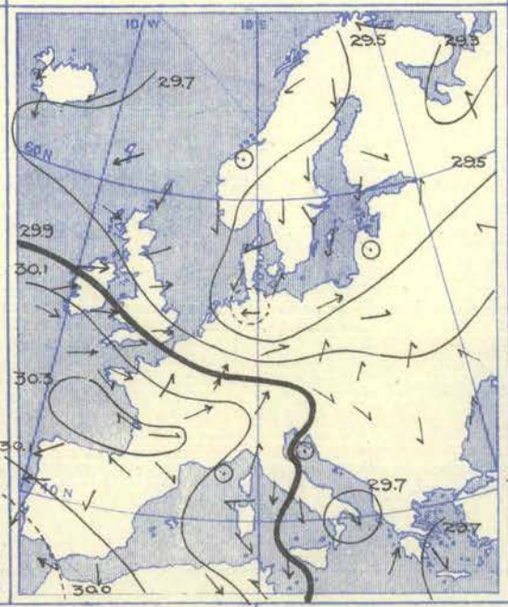
Barometer in morning 30·1 ins. to 30·4 ins. in an anticyclone extending from the Atlantic over these Islands and France. Below 29·9 ins. in shallow depressions over the south and south-west of our area, and as low as 29·2 ins. in a large disturbance of a "V-shaped" character having its minimum over or near the White Sea. A considerable modification taking place in the general distribution of pressure later owing to a very brisk decrease between Norway and Iceland and over Scotland and the northern portion of the North Sea. A separate minimum forming over North Germany during night.

Friday, 12th November, 1909.

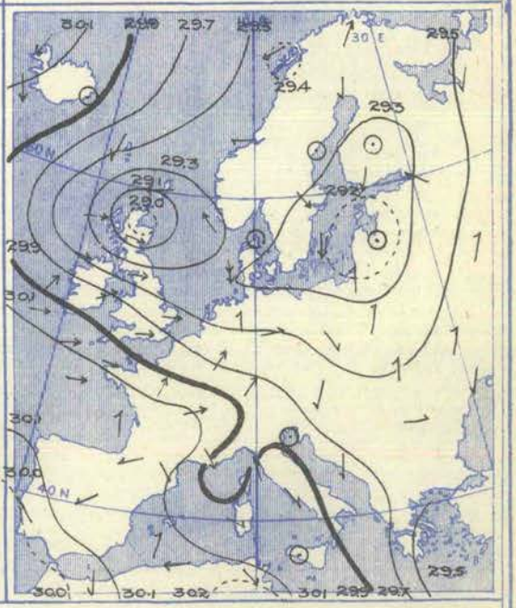
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy over Germany and the Baltic region, and also in the north and east of Scotland, and at Paris. Very cloudy or overcast over England and Ireland, but fair to very fine and bright over nearly the whole of southern Europe and the Mediterranean. A little rain experienced later over the greater part of this country, and as much as 1·25 in. at Wick. Considerable amounts in Germany and the Netherlands, moderate quantities in Russia, and more than an inch at Lisbon and Patras.

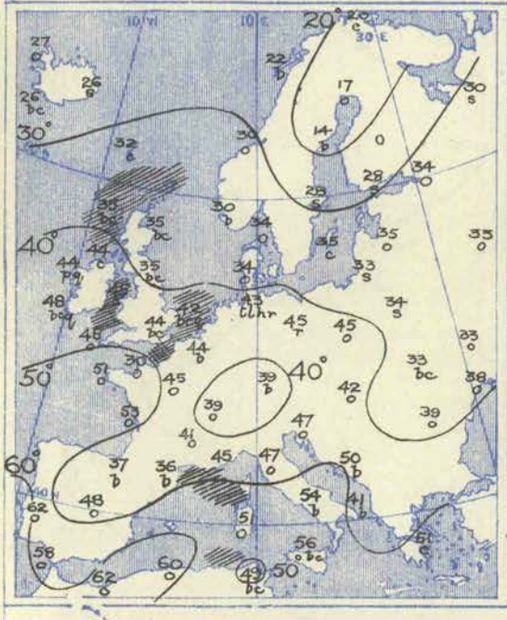
Temperature risen over the United Kingdom and France, fallen in most other regions. Morning readings ranging from about 60° in the extreme south, and about 50° in these Islands and Brittany, to below 40° generally, and to below 32° over almost all of Scandinavia; lowest reading 13° at Haparanda. Thermometer rising to a few degrees above 60° during day at most of our own stations, but only touching 41° at some places in central Europe. Maxima as high as 70° at a few stations in the far south of our area. Frost continuing all day over the greater portion of Scandinavia.

Wind in morning fresh to high from the Westward or North-Westward over these Islands and the nearer regions of the Continent, and strong from North or North-East over Iceland and at Thorshavn. Strong to high Northerly winds prevailing at Malta and Cape de Garde, and a high wind from South-East at San Fernando. Increasing to a gale later over these Islands and their neighbourhood, mainly from between West and North-West.

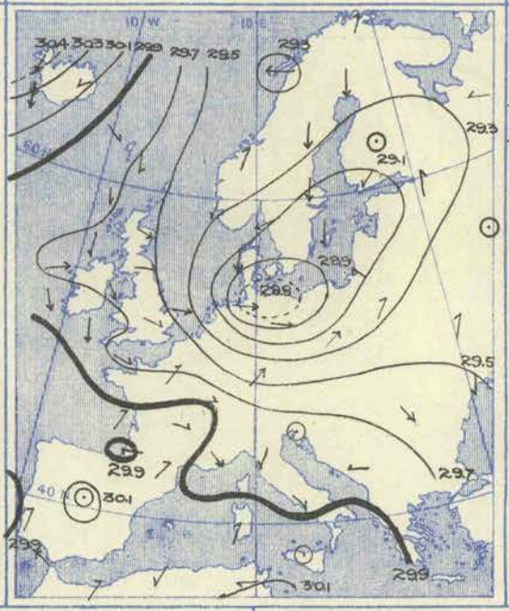
Barometer in morning above 30·2 ins. off the south-west of this country, over the Bay of Biscay, and the greater part of France, and low in a vast disturbance of irregular form covering a large portion of the northern half of our area. Barometer falling very briskly during day over the north of these Islands, and a definite minimum forming off the north-east of Scotland by evening. Gradient growing steep throughout the United Kingdom and most of the surrounding regions. Pressure increasing decidedly in Iceland and becoming highest in that region.

Saturday, 13th November, 1909.

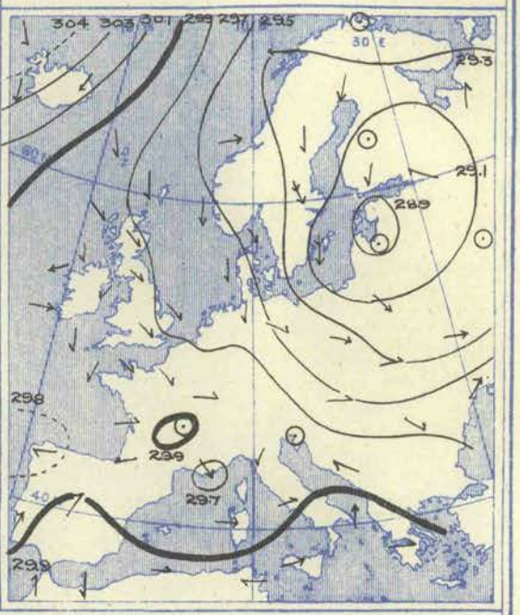
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very rough, with rain or snow, and thunder in places, over Germany and its vicinity. Fair to fine over the greater portion of this country, but rainy at Blacksod Point, and hail showers falling at Wick. Fair to very fine over nearly the whole of the Mediterranean regions. Rain, sleet, or snow later in various parts of these Islands, mostly in the north and west, and thunder at Wick. More or less rain experienced over a large area on the Continent.

Temperature fallen quickly over these Islands and rather decidedly in Scandinavia. Morning readings ranging from above 55° at several stations in the south of our area to below 40° at most places in the northern half of Europe, and to below 20° in the north of Sweden. Maxima during day below 50° over this country generally, and less than 45° in places. Thermometer rising to above 65° at many stations in the south of our area, but remaining below 32° in Sweden. Frost at night over most of the United Kingdom.

Wind in morning showing a very extensive cyclonic circulation. The Westerly current strong to a strong gale over Germany and the Netherlands, and that from North strong over Scandinavia. Fresh to high winds from the North-Westward prevalent over the United Kingdom, and strong winds and gales from the North-Eastward in Iceland. Veering to between North and North-West later over Germany and the Baltic, and blowing a gale in places. Decreasing in force over these Islands, and becoming variable in Ireland.

Barometer in morning below 28·8 ins. in a large depression having its centre over North Germany, and relatively low in the north of Scandinavia. Above 30·4 ins. in the north-west of Iceland. Gradients unusually steep over Germany and the eastern half of the North Sea. German depression travelling rather quickly eastward during day, and pressure increasing decidedly in its rear. A shallow secondary disturbance moving slowly southward over Ireland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
												Metres.	
1	1909. Nov. 7th, 11.8 a.m. to 12.35 p.m.	Brighton, 115 m.	Temperature Humidity .. Wind	281° 100% 40°, 5	280° 100% 50°, 11	278° 80% 50°, 12	275° 80% 50°, 14					1,000	Alto.-Cu. Scud about 320 m. Clear at descent.
2	Nov. 7th, 2.30 p.m. to 4.25 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	277° 57 to 77% 24°, 4	275·8° 57 to 77% 23°, 7	275° 56 to 76% 24°, 9	**271°** 60 to 74% 27°, 10	**267·7°** 70% 22°, 10			**256·7°** 70% 8°, 10	1,680	Fair to overcast. Gentle breeze. Clouds, Cu. and (later) Cu.-Ni. and Ni.
3	Nov. 10th, 10.5 a.m to 11.18 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	281° 80% 270°, 5	280° 80% 290°, 8	278·5° 96% 320°, 14	273·5° 100% 325°, 16				**272·5°** 100% 330°, 18	1,120	Clear to overcast. Showers in afternoon.
4	Nov. 11th, 11.3 a.m. to 12.10 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	280° 85% 280°, 5	279° 85% 290°, 10	278° 90% 2.5°, 14	274° 55% 240°, 16				**272°** 70% 250°, 17	1,350	A few clouds about 600 m.
5	Nov. 11th, 3.0 p.m. to 4.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	278° 97% 280°, 6	277·5° 100% 277°, 9	277° 100% 275°, 10	**273°** 100% 279°, 18				273·3° 100% 280°, 18	1,030	Morning overcast and calm. Later, dull and wet, with strong breeze. Clouds, Ni.
6	Nov. 12th, 10.5 a.m. to 10.45 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	278·5° 70% 270°, 10	70% 270°, 14	281° 85% 280°, 20					279·5° 90% 290°, 23	750	Clouds not reached. Very strong wind, but steady.
7	Nov. 12th, 3.0 p.m. to 3.20 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	279·8° 100% 270°, 14	279·0° 100% 270°, 16	278° 100% 270°, 17	274·5° 100% 270°, 22				274·3° 100% 270°, 23	1,060	Dull and wet. High wind. Clouds, Ni.
8	Nov. 13th, 12.30 p.m. to 3.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind .. .	275·8° 74% 315°, 2	274·5° 76% 312°, 3	274·0° 76% 310°, 4	**268·6°** 82% 316°, 10	**267°** 72% 320°, 10	**264·5°** 52% 322°, 11	**261·8°** 45% 326°, 15	**260°** 42% 326°, 18	?	Fine. Light breeze. Clouds, Cu.
9	Nov. 13th, 9.55 a.m. to 11.20 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind .. .	280° 80% 310°, 9	278° 80% 320°, —	275° 90% 340°, 13	**272°** 80% 340°, 13				**271°** 80% 340°, 13	1,200	Clear sky. Hazy over sea.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9
No. of Kites	1	2	1	1	1	1	1	1	1
Area of Surface (sq. metres) ..	7	15·2	8	8	7·6	4	5·7	15·2	7
Length of Wire (metres)	1,500	—	1,200	1,600	—	750	—	—	2,000

63, Victoria Street, London, S.W. *November 17th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 46. FORTY-SIXTH WEEK, SUNDAY NOVEMBER 14TH TO SATURDAY NOVEMBER 20TH, 1909. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—General Remarks.

Weather was fine and dry over the Kingdom generally, but rather frequent showers occurred in the north of Scotland and east of England, some of these consisting of sleet or snow. A good deal of fog was experienced in the west of Scotland.

Temperature was considerably below the average, the deficit ranging from about 4° in England E. to as many as 8° in Ireland S., 8°·7 in England N.W., 9°·6 in Scotland N., and 11°·6 in Scotland E. and W. The highest of the maxima were recorded on somewhat variable dates, and ranged from 55° in England N.E. and 53° in Scotland W. to 48° in Scotland N. and E. The lowest of the minima, which occurred in most places about the middle of the week, were extremely low in Ireland and Scotland. In Scotland E. (at Balmoral on the 16th) the thermometer fell to 3°, in Scotland N. and W. to 12°, in Ireland N. (at Markree Castle on the 16th) to 13°, in Ireland S. to 16°, and in England N.E. to 18°. In England S.E. the lowest value was 25°, and in the English Channel 32°. The lowest grass readings reported were −5° at Crathes, zero at Balmoral, 8° at Markree Castle, 9° at Aspatria and 11° at Glasgow. Readings below 20° were registered at many other stations.

Mean Temperature of the Sea.—The water was colder than during the corresponding week of last year at all stations except Aberdeen, the difference exceeding 3° in many localities. The actual figures for the week ranged from about 50°·5 at Newquay and Plymouth, 49° at Port Erin, and 48° at the Shipwash Lightship to 42° at Kirkwall and to 41°·6 at Pennan Bay.

Rainfall was less than the average in all parts of the Kingdom, the deficit being large in almost all localities. In several parts of Scotland and the north-west of England, as well as at some stations in Ireland and central and southern England, the week was rainless.

Bright Sunshine varied a good deal in parts even of the same districts, but generally it was much above the average. The percentage of the possible duration ranged from 59 in Ireland N., 55 in Ireland S., 50 in England S.W., and 46 in Scotland E. to 32 in Scotland N. and the Midland Counties, and to 31 in England E. At Valencia the percentage of the possible duration was as high as 79, at Balruddery 73, Newquay 70, Douglas (Isle of Man) 66, Blackpool 64, and at Markree Castle 63. At Birmingham the figure was only 12, at Westminster 11, and at Glasgow 8.

Barometer and Wind.—After Sunday the pressure distribution was mainly anticyclonic, the barometer being highest over the northern part of our Islands and the adjacent portions of the Atlantic and North Sea, and lowest over France and the Bay of Biscay region. The Easterly and North-Easterly winds which prevailed, except in the far north of the Kingdom, were frequently of considerable strength on the south and south-east coasts of England, and on some occasions they reached the force of a high wind or gale.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 364.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Very deficient	Very deficient	Very Deficient	Deficient	Very deficient	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very Deficient	Very Deficient
	Rainfall ...	Light	Light	Light	Moderate	Light	Light	Very light	Very light	Light	Very light	Very Light	Light
	Sunshine ...	Very abundant	Very abundant	Abundant	Moderate	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 11 weeks from Sept. 5th 1909.	Warmth ...	2 * 5	3 * 5	2 * 5	3 * 4	3 * 4	3 * 5	3 * 5	3 * 5	3 * 5	4 * 5	4 * 5	3 * 4
	Rainfall ...	4 * 6	4 * 3	0 * 4	2 * 1	2 * 3	4 * 3	3 * 4	3 * 5	3 * 4	3 * 6	4 * 7	4 * 4
	Sunshine ...	4 * 2	4 * 3	2 * 4	1 * 6	2 * 4	2 * 2	4 * 5	4 * 1	3 * 3	4 * 2	4 * 2	3 * 4

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

8224 450 Wy. & S. Ltd. 11—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-SIXTH WEEK—November 14th to November 20th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	48	12	38·6	26·9	32·8	− 9·6	0	− 20	64	+48	4	− 1	0·38	−0·85	18	+ 10	32	+18
Eastern																		
1. SCOTLAND, EAST	48	3	37·8	22·2	30·0	− 11·6	0	− 19	84	+62	2	− 2	0·13	−0·57	26	+ 14	46	+24
2. ENGLAND, N.E.	55	18	42·9	30·8	36·9	− 6·3	3	− 20	40	+26	3	− 1	0·29	−0·27	21	+ 9	36	+14
3. ENGLAND, EAST	49	24	44·4	34·1	39·3	− 4·1	7	− 19	30	+14	5	+ 1	0·38	−0·12	19	+ 4	31	+ 6
4. MIDLAND COUNTIES	49	20	41·8	30·3	36·0	− 6·7	0	− 23	42	+23	3	0	0·16	−0·39	19	+ 7	32	+12
5. ENGLAND, S.E.	50	25	44·0	34·5	39·3	− 5·9	6	− 27	28	+18	2	− 2	0·20	−0·46	27	+ 13	44	+21
Western																		
6. SCOTLAND, WEST	53	12	39·8	24·7	32·2	− 11·6	0	− 25	69	+57	1	− 3	0·02	−1·20	22	+ 11	37	+19
7. ENGLAND, N.W.	49	20	41·6	29·3	35·5	− 8·7	0	− 26	46	+36	1	− 3	0·01	−0·79	26	+ 14	43	+24
8. ENGLAND, S.W.	52	24	42·9	33·9	38·5	− 7·5	3	− 53	30	+22	2	− 2	0·20	−0·74	31	+ 16	50	+26
9. IRELAND, NORTH	50	13	43·0	28·4	35·8	− 8·2	3	− 23	49	+37	1	− 3	0·04	−0·89	35	+ 21	59	+36
10. IRELAND, SOUTH	50	16	43·5	31·1	37·4	− 8·1	4	− 31	40	+30	2	− 2	0·04	−0·95	34	+ 18	55	+29
11. ENGLISH CHANNEL	51	32	46·7	38·7	42·7	− 6·9	19	− 35	9	+ 8	3	− 2	0·43	−0·46	25	+ 7	39	+11

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 11 Weeks, September 5th to November 20th, 1909.

0. SCOTLAND, NORTH	68	12	*	*	*	*	439	− 58	136	+65	54	− 1	12·36	−0·55	234	+ 40	28	+ 5
Eastern																		
1. SCOTLAND, EAST	70	3	*	*	*	*	451	− 77	174	+80	46	+ 1	7·28	+0·05	247	+ 15	30	+ 2
2. ENGLAND, N.E.	70	18	*	*	*	*	606	− 18	87	+40	45	+ 4	4·80 §	−1·47	228	− 28	27	− 3
3. ENGLAND, EAST	74	24	*	*	*	*	727	+ 14	59	+ 4	49	+ 9	6·27	+0·37	244	− 44	29	− 5
4. MIDLAND COUNTIES	71	20	*	*	*	*	631	− 20	107	+38	48	+ 9	6·04	−0·29	223	− 27	27	− 3
5. ENGLAND, S.E.	71	22	*	*	*	*	775	− 26	57	+22	47	+ 8	9·90	+2·64	281	− 9	33	− 1
Western																		
6. SCOTLAND, WEST	70	12	*	*	*	*	558	− 36	135	+85	41	− 5	10·70	−1·37	238	+ 5	29	+ 1
7. ENGLAND, N.W.	69	20	*	*	*	*	613	− 56	87	+53	43	− 1	8·91	0·00	252	+ 15	30	+ 2
8. ENGLAND, S.W.	72	16	*	*	*	*	724	− 43	54	+28	47	+ 2	9·90	−0·15	286	+ 10	34	+ 1
9. IRELAND, NORTH	68	13	*	*	*	*	600	− 23	98	+57	48	− 2	8·91	−0·33	266	+ 34	32	+ 4
10. IRELAND, SOUTH	72	16	*	*	*	*	693	− 27	82	+47	52	+ 7	8·32	−0·75	301	+ 31	36	+ 4
11. ENGLISH CHANNEL	74	32	*	*	*	*	975	− 16	9	+ 8	49	0	8·79	0·00	316	− 23	37	− 3

THE YEAR.—Aggregates, &c., for the Period of 46 Weeks, January 3rd to November 20th, 1909.

0. SCOTLAND, NORTH	72	12	*	*	*	*	1867	−184	671	+ 43	218	+ 3	37·92	−6·40	1115	+ 36	27	+ 1
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	2046	−252	847	+133	183	+ 5	28·74	+1·94	1266	− 18	31	0
2. ENGLAND, N.E.	85	14	*	*	*	*	2529	− 45	667	+145	167	+ 6	22·80 §	+1·07	1343	− 47	33	− 1
3. ENGLAND, EAST	85	12	*	*	*	*	2824	−149	613	+ 37	172	+ 16	21·56	+0·75	1543	+ 28	38	+ 1
4. MIDLAND COUNTIES	86	8	*	*	*	*	2726	−161	749	+147	163	+ 9	23·04	−0·05	1392	+ 43	34	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	2956	−264	539	+123	160	+11	27·27	+3·90	1663	+130	41	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2339	−158	580	+105	175	−11	39·70	−1·22	1365	+ 50	33	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2537	−199	553	+133	172	0	30·48	+0·36	1453	+119	36	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2836	−223	444	+117	171	+ 1	30·24	−2·46	1618	+124	40	+ 3
9. IRELAND, NORTH	78	13	*	*	*	*	2517	− 93	413	+ 27	203	+ 1	30·66	−2·44	1230	− 6	30	0
10. IRELAND, SOUTH	81	15	*	*	*	*	2936	− 70	347	+ 53	191	+11	29·35	−4·90	1426	+ 48	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	3535	− 42	160	+ 50	160	−22	24·66	−2·81	1903	+ 87	47	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

§ The corresponding values for Reports Nos. 43, 44 and 45 slightly altered owing to the receipt of further information.

‖ Dew.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*48*	*18th, 19th*	*30*	*14th, 15th*	*42·4*	*35·0*	*38·7*	—	*1*	*25*	*7*	*0·86*	—	*3·7*	—	*7*	—	*Balta Sound.*
	a Sumburgh Head ..	48	19th	28	15th	43·0	35·0	39·0	- 4·0	3	25	7	0·57	- 0·34	15·3	+ 6·0	28	+11	Deerness.
	a Stornoway	48	19th, 20th	26	15th	41·4	31·4	36·4	- 6·9	0	39	6	0·66	- 0·69	14·6	+ 4·3	27	+ 8	Stornoway.
	a Castlebay, Barra Isd.	*49*	*19th*	*32*	*14, 15, 16th*	*44·6*	*34·4*	*39·5*	- *5·2*	*7*	*28*	*3*	*0·03*	—	*24·8*	—	*44*	—	*Castlebay.*
	a Wick	45	19th	12	17th	38·0	25·9	32·0	-10·5	0	70	4	0·50	- 0·13	*	*	*	*	
	p Strathpeffer.. ..	44	20th	21	17th	38·8	28·2	33·5	- 8·1	0	60	2	0·20	- 0·44	22·1	+11·3	40	+21	Strathpeffer.
	p Glencarron .. S	45	20th	19	15, 16, 17th	36·0	24·6	30·3	-11·1	0	82	3	0·59	- 1·51	*	*	*	*	
	p Fort Augustus S	43	20th	15	17th	37·3	21·6	29·5	-12·7	0	88	1	0·07	- 0·92	19·2	+13·7	34	+25	Fort Augustus.
	p Fort William S	44	20th	16	17th	35·9	21·9	28·9	-14·0	0	92	2	0·66	- 1·82	*	*	*	*	
1. SCOTLAND E.	*p* Gordon Castle S	45	19th, 20th	21	15th, 17th	38·7	28·1	33·4	- 9·2	0	60	4	0·37	- 0·25	*16·6*	—	*30*	—	*Gordon Castle.*
	a Nairn	45	19th	14	17th, 18th	36·9	23·0	30·0	-11·7	0	84	3	0·12	- 0·35	26·1	—	48	—	Nairn.
	a Aberdeen	44	19th	13	18th	35·1	23·0	29·1	-13·5	0	90	3	0·34	- 0·34	24·9	+11·4	45	+20	Aberdeen.
	a Balmoral .. S	45	19th	3	16th	33·3	12·6	23·0	-15·9	0	133	2	0·12	- 0·75	20·7	—	37	—	Crathes S.
	p Crieff .. .. S	48	19th, 20th	16	17th	41·9	23·1	32·5	- 9·4	0	67	2	0·03	- 1·02	41·4	—	73	—	Balruddery
	a Leith	46	20th	20	19th	38·9	25·0	32·0	- 11·8	0	70	0	0·00	- 0·45	19·4	+ 8·6	34	+15	Edinburgh.
	a West Linton.. S	43	20th	10	16th	37·5	15·2	26·4	-14·0	0	109	0	0·00	—	*37·7*	—	*66*	—	*West Linton.*
	p Marchmont .. S	45	20th	23	14th, 16th	39·9	27·9	33·9	- 7·4	0	57	3	0·08	- 0·65	21·0	+ 8·8	37	+15	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	46	20th	26	14th	40·2	28·8	34·5	- 8·5	0	53	2	0·32	- 0·44	34·5	—	60	—	Cockle Park.
	a Shields	46	17, 19, 20th	26	14th	43·3	29·3	36·3	- 7·4	4	45	4	0·36	- 0·14	*14·9*	+ *6·5*	*26*	+*11*	*Newcastle.*
	p Durham	45	20th	23	14th	39·6	28·9	34·3	- 8·4	0	54	4	0·25	- 0·31	13·2	+ 0·2	23	0	Durham.
	p Rounton .. M	43	20th	18	16th	37·7	24·4	31·1	-11·4	0	76	4	0·73	+ 0·18	*	*	*	*	
	p Scarborough.. M	55	18th	33	15th	47·9	38·0	43·0	- 1·4	24	11	5	0·70	+ 0·12	11·7	—	20	—	Scarborough.
	p York	48	20th	24	14th	43·5	29·4	36·5	- 6·9	4	46	3	0·03	- 0·45	19·0	+ 9·0	32	+15	York.
	a Spurn Head ..	48	18th, 19th	35	14th	45·4	38·0	41·7	- 3·3	10	16	3	0·14	- 0·28	*	*	*	*	
	a Lincoln	48	19th	28	14, 15, 16th	44·2	31·1	37·7	- 5·3	6	40	1	0·01	- 0·43	27·5	—	46	—	Skegness.
	a Fulbeck	48	19th	25	16th	44·0	29·2	36·6	- 6·2	6	46	2	0·10	- 0·35	21·9	—	37	—	Rauceby.
															19·6	—	*32*	—	*Lowestoft.*
	p Cromer	49	18th	32	14th	45·3	37·1	41·2	- 2·1	9	19	7	0·45	—	20·5	—	34	—	Cromer.
	p Hillington .. M	49	18th	24	14th	44·4	31·0	37·7	- 5·3	7	40	4	0·22	- 0·36	18·9	+ 5·6	32	+ 9	Hillington.
	a Yarmouth	47	17th, 18th	30	15th	45·7	37·3	41·5	- 2·8	10	19	6	0·52	- 0·02	17·4	—	29	—	Yarmouth.
	a Norwich	48	17th	27	14th	44·5	33·5	39·0	- 4·3	7	32	6	0·50	—	*	*	*	*	
	p Geldeston	48	17th	28	14th	44·9	34·4	39·7	- 4·5	8	29	5	0·37	- 0·16	15·9	+ 0·6	26	+ 1	Geldeston.
	p Cambridge	48	17th	27	20th	44·4	31·3	37·9	- 5·6	7	39	2	0·17	- 0·28	19·7	+ 5·3	32	+ 9	Cambridge.
	a Felixstowe	*48*	*17th*	*30*	*14th*	*45·7*	*36·4*	*41·1*	- *3·9*	*10*	*23*	*4*	*0·56*	—	*20·7*	—	*34*	—	*Felixstowe.*
	a Clacton-on-Sea ..	49	17th	32	14th	45·3	36·9	41·1	- 3·9	9	20	4	0·54	—	22·0	—	36	—	Clacton.
	a Rothamsted ..	46	17th, 18th	28	14th	42·0	31·4	36·7	- 6·3	0	37	5	0·31	- 0·32	18·7	+ 4·1	31	+ 7	Rothamsted.
	a Shoeburyness ..	*47*	*17th, 20th*	*31*	*14th*	*44·4*	*36·3*	*40·4*	- *4·9*	*7*	*22*	*4*	*0·33*	+ *0·38*	*24·6*	—	*40*	—	*Southend.*
	p Tottenham	48	18th	32	14th	42·9	34·3	38·6	- 6·0	3	28	3	0·34	—	17·3	—	28	—	Tottenham.
3. ENGLAND, E.	*a* Harrogate	47	20th	25	14th	39·8	29·9	34·9	- 7·6	0	50	2	0·04	- 0·61	22·4	—	38	—	Harrogate.
	a Bawtry	49	20th	20	14th	41·7	28·0	34·9	- 8·1	0	50	2	0·05	- 0·40	20·9	+ 9·6	35	+16	Worksop.
	p Buxton .. M	*43*	*20th*	*25*	*14th, 16th*	*38·8*	*26·4*	*33·6*	- *7·9*	*0*	*59*	*0*	*0·00*	- *1·12*	*24·1*	—	*40*	—	*Buxton.*
	a Nottingham ..	46	17th	27	14th	42·9	30·7	36·8	- 6·3	3	40	3	0·07	- 0·36	16·5	—	28	—	Nottingham.
	p Birmingham, Edgbn	45	20th	29	16th	40·9	32·2	36·6	- 6·6	0	38	2	0·23	- 0·31	7·4	—	12	—	Birmingham.
	a Raunds .. M	48	17th	26	20th	42·8	29 8	36·3	- 6·4	2	43	4	0·14	—	*	*	*	*	
	a Oxford	47	17th	28	20th	42·7	31·0	36·9	- 7·1	2	39	3	0·31	- 0·23	20·3	+ 6·5	33	+11	Oxford.
	a Cheadle .. M	44	17, 18, 19th	29	14th	42·5	32·1	37·3	- 5·0	1	35	0	0·00	- 0·65	11·7	—	20	—	Sheffield.
	p Shrewsbury	46	20th	21	16th	42·1	26·3	34·5	- 9·5	0	54	5	0·05	—	*	*	*	*	
	a Hereford .. M	46	20th	27	16th, 20th	40·4	30·0	35·2	- 8·3	0	48	4	0·51	- 0·05	*	*	*	*	
	a Cirencester	49	20th	29	14th	41·5	31·3	36·4	- 6·1	0	39	3	0·14	- 0·52	24·3	+10·5	40	+17	Cirencester.
	a Bath	47	18th	27	20th	42·0	31·4	36·7	- 7·8	0	37	2	0·23	- 0·46	30·0	—	49	—	Bath.
															31·8	—	*51*	—	*Ramsgate.*
4. MIDLAND COUNTIES.	*p* Kew	47	17th, 18th	32	14th, 20th	43·3	34·7	39·0	- 5·1	4	26	2	0·12	- 0·39	15·5	+ 3·3	25	+ 5	Kew.
	a Marlborough ..	46	18th	25	20th	42·0	30·5	36·3	- 6·2	0	40	1	0·08	- 0·66	24·1	+ 6·1	40	+10	Marlborough.
	a Margate	50	15th	34	14th	46·7	38·8	42·8	- 2·8	19	9	2	0·25	- 0·30	30·0	+15·0	49	+25	Margate.
	a Wisley, Surrey ..	46	17th, 18th	29	14th, 20th	42·8	31·9	37·4	- 7·4	2	36	4	0·14	—	18·1	—	29	—	Wisley.
	a Swarraton .. M	47	18th	28	14th, 20th	42·1	31·4	36·8	- 6·5	0	38	3	0·13	- 0·63	35·4	—	57	—	Worthing.
	a Tunbridge Wells M	45	17th, 18th	31	14th	42·6	32·9	37·8	- 6·2	2	33	4	0·26	- 0·52	28·7	+12·4	46	+20	Tunbridge Wells.
	a Dungeness	47	14th, 17th	30	14th, 20th	45·6	37·1	41·4	- 5·0	10	20	1	0·57	- 0·01	26·1	—	42	—	Littlestone.
	p Hastings	47	14th, 20th	33	20th	44·9	35·8	40·4	- 5·6	8	24	1	0·07	- 0·66	*33·0*	+ *15·7*	*53*	+*25*	*Hastings.*
	p Southampton ..	48	18th	32	20th	44·6	34·5	39·6	- 6·4	7	28	0	0·00	- 0·75	31·1	+15·9	50	+26	Southampton.
	a Ventnor	50	14th	36	17th, 20th	45·6	37·7	41·7	- 6·3	10	18	1	0·39	- 0·34	31·1	+14·4	50	+23	Ventnor.
															31·2	+15·2	50	+25	Eastbourne.
LONDON	*a Westminster* ..	*48*	*17th*	*34*	*17th*	*44·4*	*36·3*	*40·4*	- *4·1*	*7*	*22*	*4*	*0·28*	- *0·25*	*6·5*	- *0·3*	*11*	*0*	*Westminster.*
	a Greenwich ..	*48*	*17th*	*30*	*14th*	*43·4*	*34·2*	*38·8*	- *5·7*	*4*	*28*	*4*	*0·25*	- *0·28*	*14·0*	+ *2·7*	*23*	+ *5*	*Greenwich.*
5. ENGLAND, S.E... ..	*a* Laudale	49	19th	25	14, 15, 17th	36·7	28·7	32·7	-11·6	0	65	1	0·08	- 1·82	*	*	*	*	
	a Poltalloch .. S	47	19th	18	17th	41·3	22·3	31·8	-11·8	0	71	1	0·02	- 1·24	*	*	*	*	
	p Glasgow	47	20th	20	17th, 18th	33·8	24·3	29·1	-13·9	0	90	0	0·02	- 0·83	4·6	- 2·2	8	- 4	Glasgow.
	a Kilmarnock ..	47	20th	12	17th	38·2	17·9	28·1	-14·6	0	97	0	0·00	—	*11·7*	—	*21*	—	*Kilmarnock.*
	a Colmonell .. S	53	20th	16	16th	46·9	19·7	33·2	- 9·4	14	81	0	0·00	- 1·24	*	*	*	*	
	p Dumfries .. S	42	17th, 19th	23	15, 16, 17th	38·4	26·0	32·2	-10·8	0	69	0	0·00	- 0·90	*27·1*	—	*47*	—	*Dumfries.*
	p Cally, Gatehouse S	45	18th	20	16th	39·9	23·1	31·5	-11·5	0	74	0	0·00	- 1·27	*	*	*	*	
	b, ISLE OF MAN .. *p* Douglas	50	20th	29	16th	43·6	32·6	38·1	- 7·4	4	34	0	0·00	- 1·10	38·8	+24·2	66	+41	Douglas.
															17 7	—	30	—	Hoylake.
	p Aspatria	44	20th	23	15, 16, 17th	37·8	25·0	31·4	-11·4	0	74	0	0·00	- 0·98	34·0	—	59	—	Aspatria.
	p Newton Rigg ..	45	17th, 19th	20	15th, 16th	40·5	22·4	31·5	- 9·9	0	74	0	0·00	- *0·85*	28·0	+15·8	48	+27	Newton Rigg.
	p Stonyhurst	46	19th	25	14th	42·2	30·1	36·2	- 6·8	1	42	0	0·00	- 1·05	31·2	+20 0	52	+34	Stonyhurst.
	p Blackpool .. M	46	20th	27	14, 15, 16th	42·9	28·1	35·5	- 9·0	3	49	0	0·00	- 0·84	38·1	+26·6	64	+44	Blackpool.
	p M nch'ster,Prestwich	44	14th, 18th	27	14th	41·7	31·0	36·4	- 7·0	0	39	0	0·00	- 0·77	*20·7*	+*13·0*	*35*	+*22*	*Prestwich.*
	a Liverpool (Bidston)	47	20th	30	15th	41·7	32·6	37·2	- 6·5	0	34	1	0·02	- 0 60	*18·7*	—	*31*	—	*Liverpool.*
	a Hawarden Bridge ..	48	20th	26	16th, 17th	42·5	28·5	35·5	- 9·9	1	48	1	0·02	- 0·53	*32·5*	+*21·4*	*54*	+*36*	*Southport.*
															21·8	—	*56*	—	*Rhyl.*
	p Llandudno .. M	48	20th	29	16th	33·5	41·2	38·7	- 7·9	5	31	0	0·00	- 0·72	19·1	+ 5·9	32	+10	Llandudno.
	a Holyhead	49	20th	33	15th	35·4	41·7	39·8	- 7·2	6	25	1	0·01	- 0·96	29·7	—	49	—	Aberdovey.
	p Bettws-y-Coed ..	43	20th	22	16th, 17th	39·0	26·7	32·9	-13·4	0	64	2	0·04	—	9·2	—	15	—	Bettws-y-Coed.
															26·3	—	43	—	Aberystwyth.
8.	*a* Llangammarch Wells	42	18th	24	20th	38·8	28·9	33·9	- 8·7	0	57	3	0·37	—	10·7	—	18	—	Llangammarch Wells.
	a Pembroke	48	20th	32	15th	44·4	34·9	39·7	- 8·3	7	27	1	0·11	- 0·79	36·6	+21·6	60	+35	Pembroke.
	a Cardiff	49	20th	31	16th	42·2	33·1	37·7	- 6·8	1	32	2	0·26	- 0·70	*26·9*	—	*44*	—	*Cardiff.*
															31·6	+*16·1*	*52*	+*26*	*Tenby.*
	a Clifton	45	17th, 18th	29	16th, 17th	42·1	31·9	37·0	- 8·0	0	35	1	0·17	- 0·59	*24·0*	—	*39*	—	*Clifton.*
	a Shaftesbury .. M	43	17, 18, 20th	31	20th	40·8	32·9	36·9	- 7·1	0	36	1	0·10	- 0·73	*	*	*	*	
	a Arlington	46	20th	31	20th	41·6	33·9	37·8	- 6·9	0	29	3	0·60	- 0·74	43·3	+25·2	70	+41	Newquay.
	a Cullompton .. M	48	18th	28	20th	43·4	32·1	37·8	- 7·2	4	36	3	0·22	- 0·63	29·7	+16·2	48	+26	Cullompton.
	a Portland Bill ..	48	14th, 18th	36	15th, 17th	45·6	37·4	41·5	- 6·4	10	19	2	0·12	—	*29·3*	—	*47*	—	*Weymouth.*
	p Plymouth	52	14th	32	14th	45·4	36·3	40·9	- 6·6	10	23	2	0·03	- 0·83	35·5	+19·7	57	+32	Plymouth.
	p Falmouth	49	14th	34	15th	45·1	37·6	41·4	- 7·1	9	18	1	0 02	- 1·12	32·4	+14·4	52	+23	Falmouth.
															26·1	+*10·5*	*42*	+*17*	*Torquay.*
9. IRELAND, N.	*a* Malin Head	49	20th	30	16th, 17th	43·9	34·6	39·3	- 6·2	5	28	1	0·01	- 0·74	*	*	*	*	
	a Blacksod Point ..	50	20th	30	15th, 16th	42·4	32 9	37·7	- 8·9	1	32	2	0·29	- 1·03	*	*	*	*	
	p Markree Castle ..	50	20th	13	16th	44·0	20·3	32·2	-11·6	6	78	0	0 00	- 0·99	37·2	+23·9	63	+41	Markree Castle.
	a Birr Castle	44	20th	16	16th	41·1	22·4	31·8	-11·7	0	71	1	0·02	- 0·74	*37·2*	+*22·2*	*62*	+*37*	*Birr Castle.*
	p Armagh	46	20th	20	16th	42·0	24·3	33·2	-10·5	0	62	1	0·01	- 0·69	32·5	+18·8	55	+32	Armagh.
	a Donaghadee	49	20th	30	16th	44·7	36·1	40·4	- 4·8	8	23	0	0 00	- 0·75	*	*	*	*	
10. IRELAND, S.	*p* Dublin, City.. ..	47	19th	28	16th	44·3	35·6	40·0	- 6·0	6	24	3	0·19	- 0·47	22·6	+ 5·8	38	+10	Phœnix Park.
	a Kilkenny	46	18th, 20th	24	16th	43·1	30·0	36·6	- 7·4	3	43	2	0·02	- 0·73	*	*	*	*	
	a Waterford	50	16th, 17th	26	15th, 16th	46·4	32·7	39·6	- 5·9	12	36	0	0·00	- 0·92	*	*	*	*	
	a Birr Castle	44	20th	16	16th	41·1	22·4	31·8	-11·7	0	71	1	0·02	- 0·74	37·2	+22·2	62	+37	Birr Castle.
	a Foynes	43	14th	27	16th	41·1	31·0	36·1	- 9·4	0	41	5	0·06	- 0·90	*	*	*	*	
	p Cahir .. .. M	45	18th	21	16th	42·2	29·2	35·7	- 9·6	1	45	1	0·01	—	*	*	*	*	
	a Killarney	47	20th	23	15th	43·9	27·9	35·9	- 9·9	5	51	2	0·02	- 1·33	*	*	*	*	
	a Valencia	47	20th	29	16th	44·7	35·7	40·2	- 7·8	8	24	0	0·00	- 1·34	48·1	+32·3	79	+53	Valencia.
	a Roche's Point ..	48	20th	31	15th, 16th	44·0	35·6	40·3	- 7·3	8	25	2	0·02	- 1·03	26·9	—	43	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	49	14th	36	17th, 18th	46·6	38·6	42·6	- 7·6	18	10	3	0·14	- 0·67	25·5	+ 7·2	41	+12	Scilly.
	a Jersey, St. Aubins ..	49	15th, 16th	32	20th	45·7	37·6	41·7	- 7·4	10	18	2	0·43	- 0·48	26·6	+ 8·0	42	+13	St. Helliers.
	a Guernsey	51	20th	38	15th, 20th	47·9	39·8	43·9	- 5·6	23	6	3	0·71	- 0·34	21·8	+ 6·7	35	+11	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 38·6 hrs. (+16·8 hrs.), 54 % (+27 %); Bournemouth, 37·1 hrs., 60 %; Roager, 36·9 hrs., 60 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	39·3	—
	— —				
	— —				
1.	Aberdeen	—	—	—	44·5
	Crathes	6	− 5	38·4	44·5
	Balmoral	6	0	—	—
	West Linton	7	6	—	—
	Marchmont	6	17	36·7	—
2.	Cockle Park	7	22	34·6	43·1
	Durham	5	16	—	—
	York	—	—	42·3	48·2
	Hull	6	20	39·9	48·4
	Lincoln	—	—	40·4	47·8
	Rauceby	7	21	41·2	49·0
3.	Norwich	6	20	—	—
	Yarmouth	—	—	41·6	49·0
	Lowestoft	1	26	42·4	48·7
	Cambridge	7	16	40·7	48·7
	Clacton-on-Sea	5	23	44·4	50·2
	Southend	5	26	43·3	—
	Tottenham	5	25	—	49·9
4.	Harrogate	7	18	41·2	44·9
	Huddersfield	5	19	39·4	46·9
	Buxton	7	18	38·0	46·8
	Sheffield	6	16	40·7	47·9
	Nottingham	6	20	38·5	46·2
	Birmingham	6	23	40·9	48·3
	Oxford	6	21	—	—
	Hereford	7	14	—	—
	Cirencester	—	—	—	—
5.	Margate	1	29	43·4	48·4
	Greenwich	5	22	—	—
	Westminster	2	30	—	—
	Kew	4	22	41·9	49·4
	Canterbury	4	21	41·0	46·6
	Tunbridge Wells	7	24	40·3	—
	Wisley	5	22	41·0	48·1
	Worthing	3	25	41·6	50·2
	Portsmouth	3	25	42·7	50·3
6.	Glasgow	7	11	—	—
	Rothesay	—	—	—	45·7
	Colmonell	7	13	—	—
	Dumfries	7	18	36·3	45·1
	Douglas	5	23	—	—
7.	Aspatria	7	9	—	—
	Newton Rigg	7	13	39·0	45·6
	Burnley	7	15	38·0	46·5
	Southport	7	15	36·6	45·7
	Manchester City	5	23	38·1	48·6
	Bettws-y-Coed	7	19	39·0	47·4
8.	Llangammarch Wells	6	18	41·3	48·7
	Cardiff	5	22	41·0	48·8
	Clifton	6	26	—	—
	Bath	—	—	43·3	49·8
	Plymouth	5	22	43·0	—
9.	Armagh	7	14	40·0	47·7
	Markree	7	8	40·4	49·3
10.	Dublin, Trin. Coll.	4	20	42·3	47·7
11.	Guernsey, Brooklyn	2	29	45·6	52·5

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	46	46	46·0
	Kirkwall	43	41	42·0
	Wick	50	48	48·7
SCOTLAND, E.	Cromarty	45	40	42·7
	Pennan Bay	43	40	41·6
	Aberdeen, Cove Bay	48	45	45·9
ENGLAND, N.E.	Burnmouth, Berwick	46	42	43·4
	Scarborough	46	44	45·1
ENGLAND, E.	Shipwash Lightship	49	47	48·0
	Margate‡	48	46	46·7
ENGLAND, S.E.	Eastbourne‡	50	44	46·7
SCOTLAND, W.	Lamlash	50	48	48·6
	Ballantrae	47	43	44·7
ENGLAND, N.W.	Port Erin	50	48	49·0
ENGLAND, S.W.	Newquay	52	49	50·5
	Plymouth‡	55	49	50·8
	Salcombe	53	46	49·1
IRELAND, N.W.	Sheephaven	48	47	47·1
	Teelin	49	43	45·9
IRELAND, S.W.	Cleggan	50	43	44·9
	Seafield	51	44	47·1
IRELAND, E.				

‡ Only one observation each day.

CORRECTIONS AND ADDITIONS FOR OCTOBER, 1909.

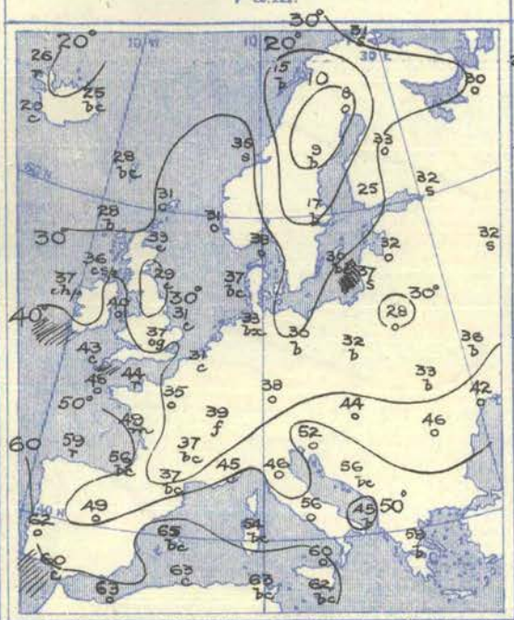
NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

NUMBER AND PAGE OF REPORT.	NUMBERS OF DISTRICTS AND NAMES OF STATIONS.	Temperature. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Daily Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 42, p. 338	3. England, E.	—	—	—	—	—	—	—	—	—	—	—	0·54	−0·11	—	—	—	—
No. 43, p. 346	2. England, N.E.	—	—	—	—	—	—	—	—	—	—	—	0·60	−0·13	—	—	—	—
No. 44, p. 354	4. Midland Counties.	—	—	—	—	—	—	—	—	—	—	—	—	—	8	− 8	12	−11
Station Values.— Additions.																		
No. 41, p. 331	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	13·3	—	17	—
No. 42, p. 339	York	—	—	—	—	—	—	—	—	—	—	—	—	—	12·8	− 6·4	18	− 9
No. 42, p. 339	Fulbeck	63	18, 20	43	22nd	60·9	47·7	54·1	+6·3	85	0	6	0·61	+0·02	—	—	—	—
No. 42, p. 339	Cromer	64	23rd	40	22nd	59·8	48·8	54·1	+5·8	85	0	7	0·72	—	12·6	—	18	—
No. 42, p. 339	Hoylake	—	—	—	—	—	—	—	—	—	—	—	—	—	20·9	—	29	—
No. 43, p. 347	Balmoral	51	24th	—	—	42·7	—	34·3	−7·2	2	54	—	—	—	—	—	—	—
No. 44, p. 355	Sheffield	—	—	—	—	—	—	—	—	—	—	—	—	—	0·9	—	1	—
Station Values.— Corrections.																		
No. 39, p. 315	Scarborough	—	—	—	—	—	—	—	—	—	—	—	0·56	+0·04	—	—	—	—
No. 39, p. 315	York	—	—	—	—	—	—	—	—	—	—	—	—	—	7·3	−18·0	9	−22
No. 39, p. 315	Swarraton	—	—	—	—	—	45·8	52·1	−0·8	71	—	—	—	—	—	—	—	—
No. 40, p. 323	Scarborough	—	—	—	—	—	—	—	—	—	—	—	0·39	−0·21	—	—	—	—
No. 40, p. 323	Swarraton	—	—	—	—	—	47·4	54·1	+2·7	85	—	—	—	—	—	—	—	—
No. 40, p. 323	Kilmarnock	—	—	43	6th	—	49·1	53·8	+3·6	83	—	—	—	—	—	—	—	—
No. 40, p. 323	Douglas	—	—	—	—	—	47·5	52·6	+1·5	74	—	6	0·98	0·00	—	—	—	—
No. 40, p. 323	Newton Rigg	—	—	—	—	57·4	—	50·9	+1·9	62	—	—	—	—	—	—	—	—
No. 40, p. 323	Stonyhurst	—	—	—	—	—	46·9	52·1	+1·9	71	—	—	—	—	—	—	—	—
No. 40, p. 323	Pettws-y-Coed	—	—	—	—	—	—	—	—	—	—	—	1·68	—	16·0	—	20	—
No. 40, p. 323	Plymouth	—	—	—	—	—	50·7	56·2	+2·1	99	—	—	—	—	—	—	—	—
No. 41, p. 331	Scarborough	—	—	—	—	—	—	—	—	—	—	6	0·63	−0·07	—	—	—	—
No. 41, p. 331	York	—	—	—	—	—	—	—	—	—	—	—	—	—	17·2	− 1·9	23	− 5
No. 41, p. 331	Cheadle	—	—	45	12, 13, 14	—	47·1	52·2	+4·0	71	—	—	—	—	—	—	—	—
No. 41, p. 331	Shaftesbury	—	—	44	14th	—	49·9	53·7	+3·6	82	—	—	—	—	—	—	—	—
No. 41, p. 331	Cahir	—	—	—	12, 14	—	46·4	52·0	+1·3	70	—	—	—	—	—	—	—	—
No. 41, p. 331	Valencia	—	—	—	—	—	—	—	—	—	—	—	2·37	+1·22	—	—	—	—
No. 42, p. 339	Balmoral	—	—	—	—	53·6	—	47·5	+4·7	40	—	—	—	—	—	—	—	—
No. 42, p. 339	Scarborough	—	—	—	—	—	—	—	—	—	—	—	0·62	−0·13	—	—	—	—
No. 42, p. 339	Hillington	—	—	—	—	59·9	—	53·6	+5·2	81	—	—	—	—	—	—	—	—
No. 42, p. 339	Shrewsbury	—	—	—	—	60·7	—	53·9	+5·9	83	—	—	—	—	—	—	—	—
No. 42, p. 339	Tungeness	—	—	—	—	—	—	—	—	—	—	5	0·49	−0·21	—	—	—	—
No. 42, p. 339	Blackpool	—	—	—	—	—	—	—	—	—	—	—	2·60	+1·74	—	—	—	—
No. 43, p. 347	Scarborough	—	—	—	—	—	—	—	—	—	—	3	0·81	+0·06	—	—	—	—
No. 43, p. 347	Tottenham	—	—	—	—	—	38·3	42·7	−5·0	—	10	—	—	—	—	—	—	—
No. 43, p. 347	Wisley	—	—	—	—	47·4	—	43·0	−5·3	20	—	—	—	—	—	—	—	—
No. 43, p. 347	Stonyhurst	—	—	—	—	44·7	—	39·7	−5·9	8	26	—	—	—	—	—	—	—
No. 43, p. 347	Plymouth	—	—	—	—	52·8	—	46·9	−3·4	37	—	—	—	—	—	—	—	—
No. 44, p. 355	Balmoral	—	—	—	—	52·9	—	42·5	+1·6	46	—	—	—	—	—	—	—	—
No. 44, p. 355	Scarborough	—	—	—	—	—	—	—	—	—	—	—	0·08	−0·61	—	—	—	—

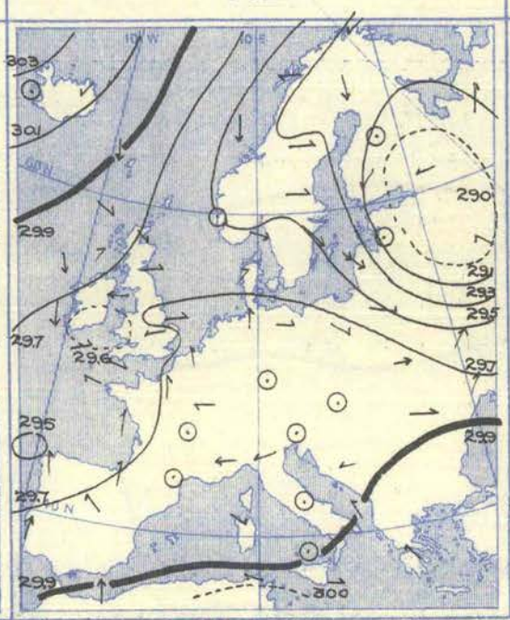
		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
Station Values.— Additions.					
No. 40, p. 324	Rothesay	—	—	—	52·0
No. 41, p. 332	Wisley	—	—	54·9	55·9
No. 44, p. 356	Aberdeen	—	—	—	46·6
No. 44, p. 356	Sheffield	3	14	45·5	50·1
Station Values.— Correction.					
No. 43, p. 348	Lincoln	—	—	48·3	—

Sunday, 14th November, 1909.

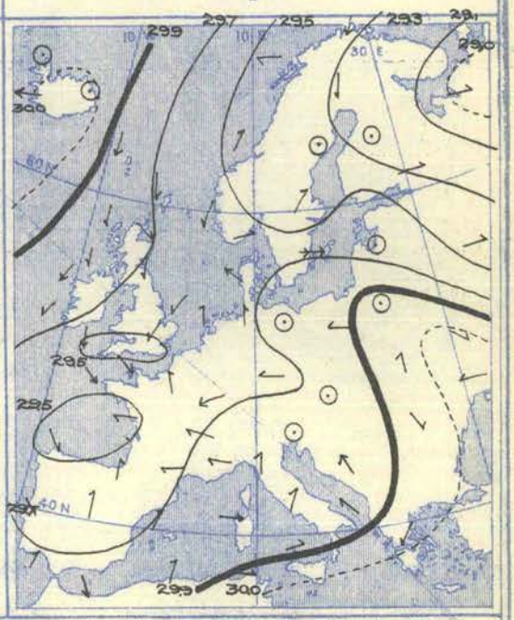
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull or very cloudy in nearly all parts of England and Ireland and the nearer regions of the Continent, with rain, sleet, or snow in places. Snow falling over a large portion of Russia and at Christiansund, but fair to fine over the greater part of the Continent. Various forms of precipitation later over the United Kingdom, heavy rain in some French localities, and considerable quantities in places elsewhere. Heaviest falls, 1·7 in. at Belfort, and 2·1 ins. at Patras.

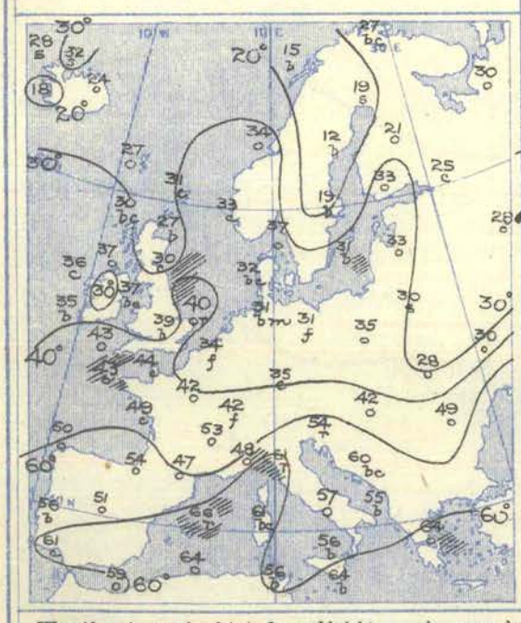
Temperature fallen generally, but risen over the Mediterranean. Morning readings below 10° in northern Sweden, and below 32° at many places in the United Kingdom and the northern half of the Continent. As high as 65° at Palma, and above 60° at several other southern stations. Maxima during day only 32° at Nairn, and below 40° in many parts of this country, as well as in Germany and Poland. Thermometer rising to 72° at Palermo, 75° at Algiers, and to between 60° and 70° in the south generally. Subsequent minima extremely low in central Ireland, as low as 18° at Birr Castle.

Wind in morning showing feeble cyclonic circulations over these Islands and the Bay of Biscay, and a very extensive one over Russia and its neighbourhood. North-Westerly current strong to a gale over the Baltic, and a high wind from the Southward prevailing at Oporto, but little force generally. Little change as a whole during day, but Northerly and North-Easterly winds becoming general over this country.

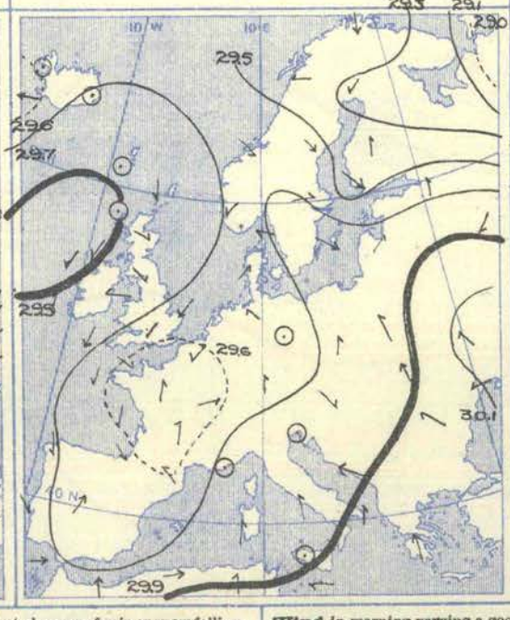
Barometer in morning above 30·2 ins. over the western part of Iceland, and relatively high in the extreme south and south-east of our area. Below 29·0 ins. in a large depression centred over Russia, and below 29·6 ins. in two other minima, one over the south-west of these Islands, and the other off the north-west of Spain. Main disturbance travelling north-eastwards during day, and that over England moving slowly southwards and undergoing some modification in form. A brisk decrease of pressure setting in over Iceland.

Monday, 15th November, 1909.

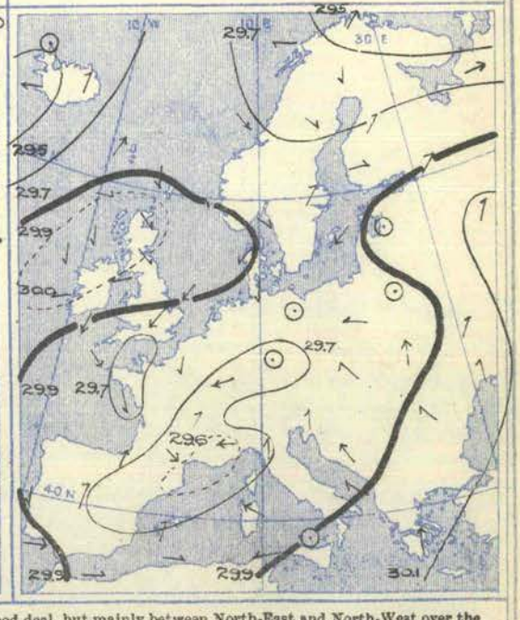
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over a large area, but showers of rain or snow falling in places, and much cloud prevailing. Sleet or snow later over a large portion of this country, and heavy rain in many parts of France, Switzerland, and Italy, and also at Trieste and Athens. Heaviest measurements, 1·8 in. at Nice, and 2·0 ins. at Lugano.

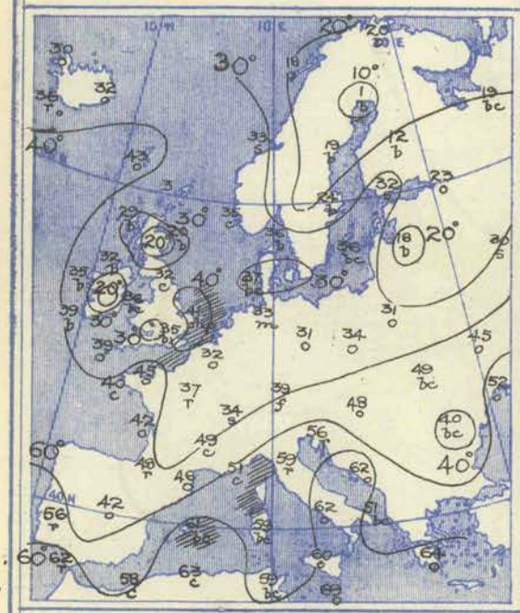
Temperature changed rather irregularly, fallen in Ireland and Scotland. Morning readings 20° or rather lower in central Ireland and a large portion of Scandinavia, and below 32° over most of Russia and Germany. Between 55° and 60° over the major portion of the Mediterranean, and above 60° in places. Rising later to above 70° in Algeria, and to above 65° at many stations in the south, but falling to touch 40° in various parts of central Europe and the United Kingdom. Minima during night as low as 16° at Birr Castle, and below 20° in some Scottish localities.

Wind in morning varying a good deal, but mainly between North-East and North-West over the north-western countries and from some Southerly point in the south. Moderate or light generally, but high at Palermo, Lemberg, and Hangö, and fresh in a few other localities. A gale from South blowing over the Azores. North-Easterly current increasing in force to a strong breeze or high wind on our south and south-east coasts by evening or at night, and a high wind from the Southward setting in at Sanguinaire and Leghorn.

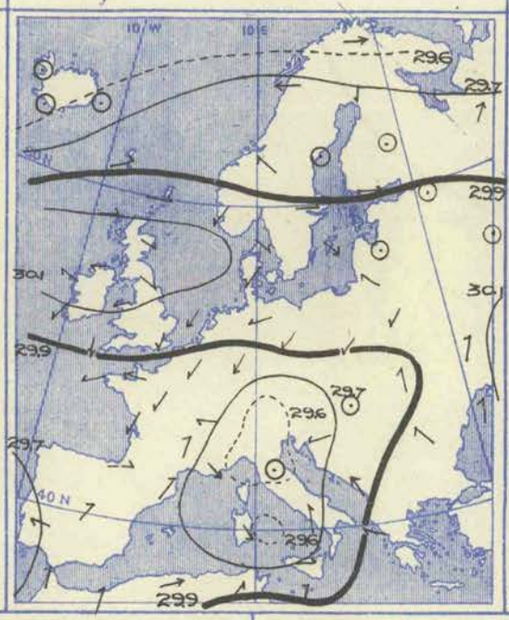
Barometer in morning above 30·1 ins. in the south of Russia, and above 29·9 ins. in a large area off the north-west and west coasts of these Islands. Below 29·6 ins. in a shallow depression occupying nearly the whole of France, and below 29·0 ins. in the extreme north of Russia. Atlantic high pressure extending eastward and increasing in intensity during day, and French depression becoming very shallow. Pressure increasing very quickly in the north of Russia.

Tuesday, 16th November, 1909.

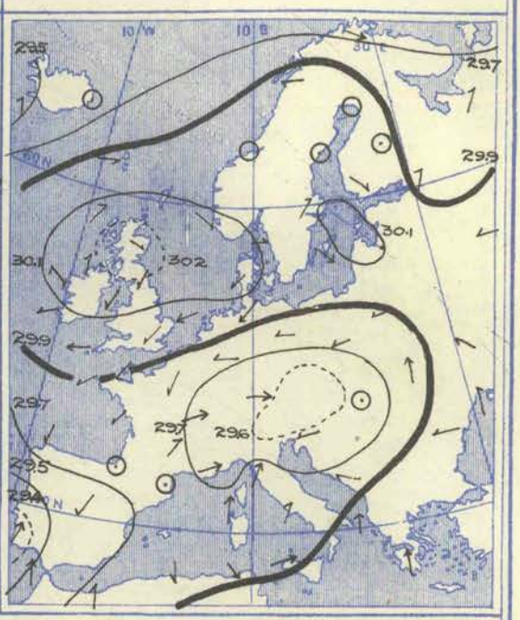
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over the United Kingdom and a large portion of northern Europe, but snow falling at Helsingfors and Christiansund. Generally overcast over the central and southern countries, with rain in several localities. Some rain or sleet showers later in the south and east of England, and rather heavy rain or snow in various parts of central Europe, the north of Italy, the Spanish Peninsula, and at Moscow.

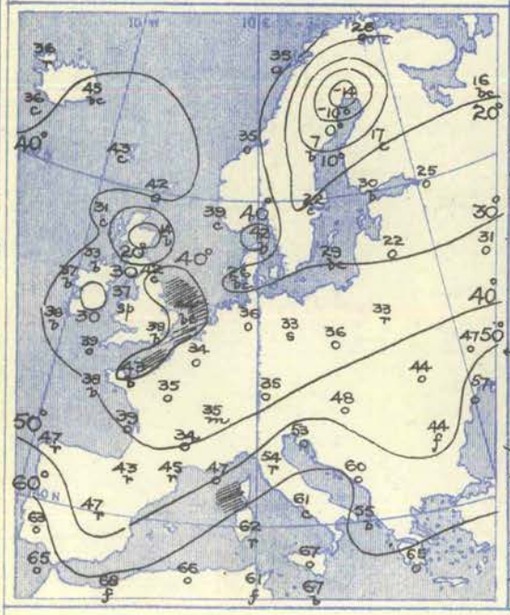
Temperature fallen in most regions. Morning readings 20° or below in some parts of Scotland and in central Ireland, and also over a large area in the north of the Continent; as low as 1° at Haparanda. Remaining below 32° all day in the east of Scotland, and below 45° in nearly all parts of these Islands, the Netherlands, Germany, and the east of France. Maxima above 70° in the extreme south of our area. Frost at night very severe in Scotland, thermometer falling to 12° at Wick, and to 14° at Nairn and Aberdeen.

Wind in morning mainly anticyclonic over the northern half of our area and cyclonic in the south. Not much force generally, but North-Easterly current fresh to high on the English Channel. Little change as a whole later, but Southerly wind becoming high at San Fernando.

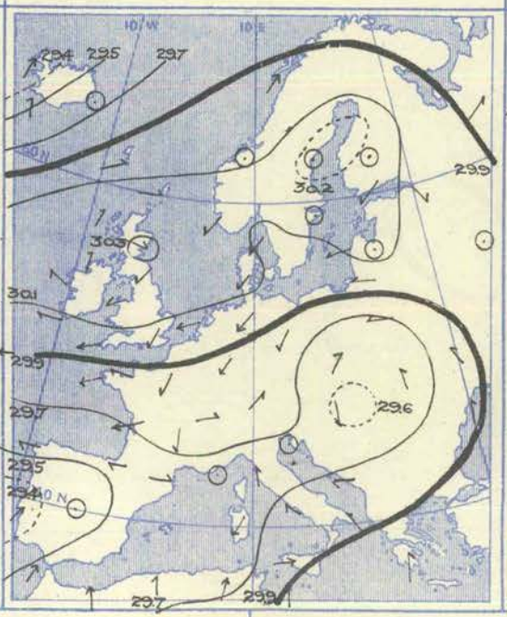
Barometer in morning above 30·1 ins. over Scotland, most of Ireland, and the northern part of the North Sea, and also over Little Russia. Below 29·6 ins. in a shallow depression over the north of Italy, very low over the Azores, and relatively low in Iceland. Scotch anticyclone increasing in intensity during day without changing its position. Italian depression moving somewhat further north, and that at the Azores travelling towards the Peninsula. A fresh and rather decided fall of the barometer commencing in Iceland.

Wednesday, 17th November, 1909.

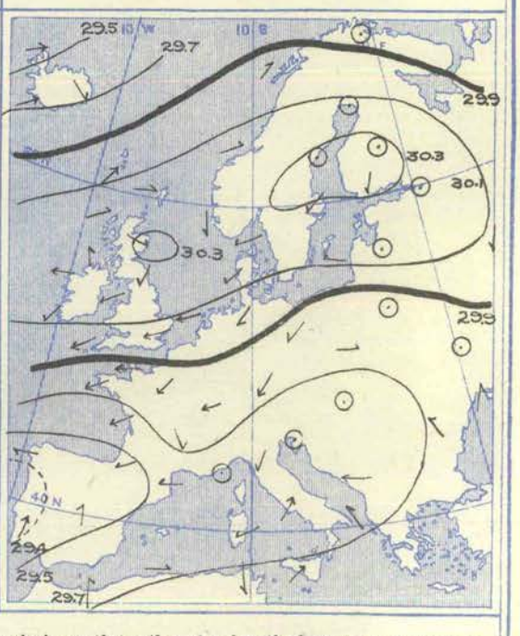
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine in nearly all parts of this country and Scandinavia; generally very cloudy or dull over central and southern Europe, with snow in Germany, and rain in places over a wide area. Heavy rain later over a large part of southern Europe, as much as 2·4 ins. at Rome, and considerable or heavy falls of snow in Germany, as much as 1·06 in. at Berlin.

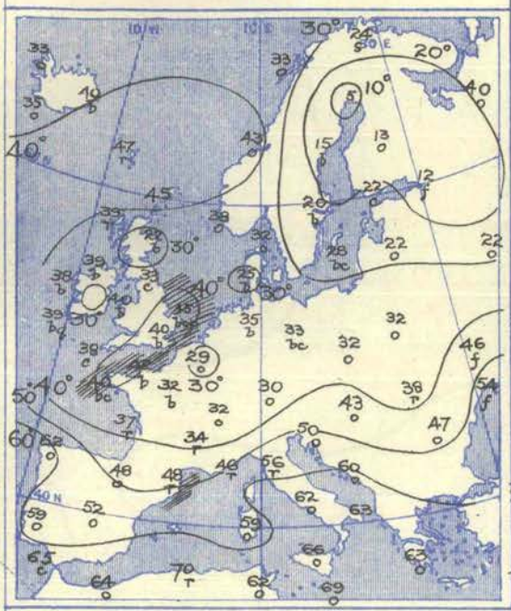
Temperature changed rather irregularly, but fallen in most regions. Morning readings 14° at Aberdeen, 15° at Nairn, and below 30° over Scotland generally; below zero in the north of Sweden. Above 60° on the north coast of Africa and in some of the adjacent Islands, and nearly 70° in a few localities. Maxima during day no higher than 26° at Aberdeen, and 33° at Nairn, but about 45° or rather higher in many parts of these Islands. Thermometer rising to above 70° in the extreme south, but remaining low in the central and northern countries. Sharp frost at night in Scotland and central Ireland.

Wind in morning light and anticyclonic over the north-west and north of our area generally, but blowing a gale from South-West at Isafjord. Mainly cyclonic, and stronger, over the central and southern countries. North-Easterly current fresh to high on the English Channel. Very little change during day; increasing to a strong breeze or high wind from the Eastward on the north German coast.

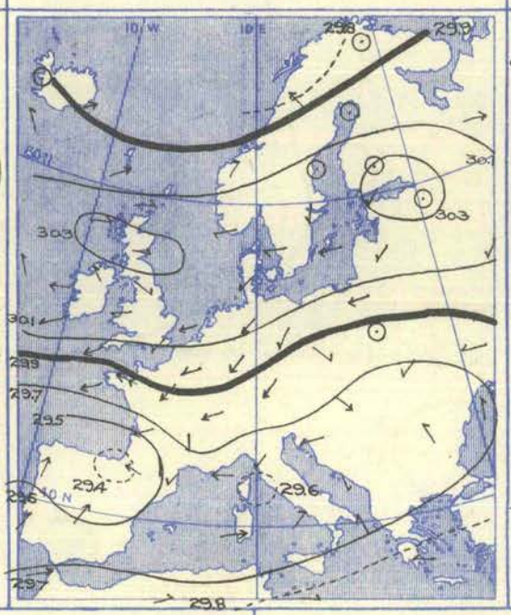
Barometer in morning 30·1 ins. to above 30·2 ins. in a long anticyclonic band extending from the Atlantic across Scotland to Finland. Low in a very large system with two or three minima occupying the central and southern parts of our area; below 29·4 ins. in Portugal. Below 29·4 ins. in the extreme north-west of Iceland also. Very little modification occurring later in the general distribution of pressure; increasing somewhat within the anticyclonic band and also over Iceland.

Thursday, 18th November, 1909.

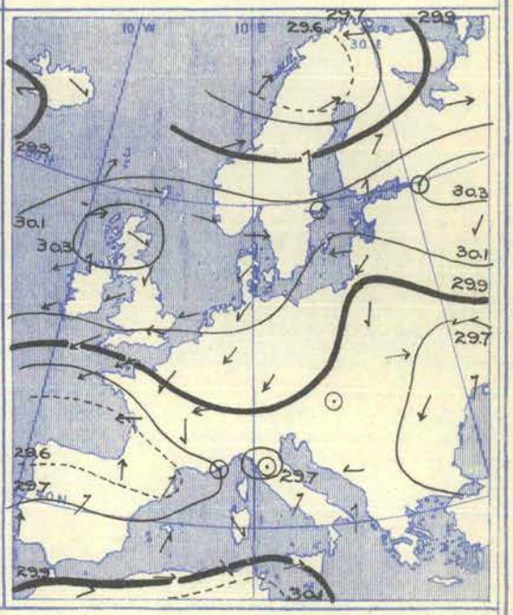
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine in most parts of the United Kingdom and at several places on the Continent, but a good deal of cloud prevailing generally, with rain at some southern stations and also at Lemberg. Rainy also at Thorshavn and Stornoway, and snow falling at Vardö. Some rain or snow falling later in various parts of central Europe and Russia, and as much as 2·6 ins. of rain at Malta.

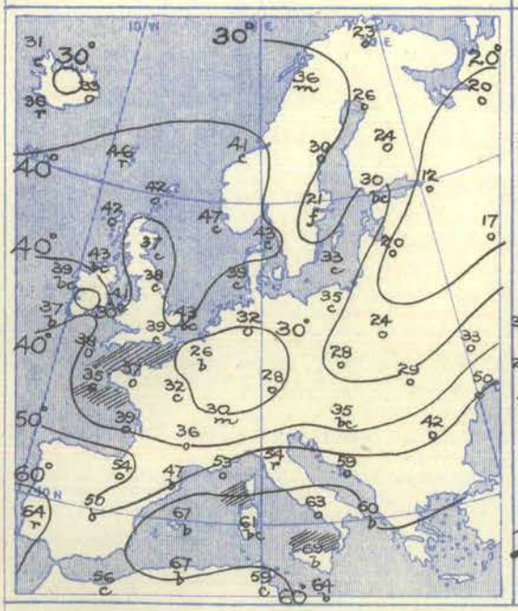
Temperature risen over the greater portion of our area. Morning readings ranging from 70° at Algiers, 69° at Malta, and above 60° at many stations in the far south, to between 20° and 30° in Scotland and central Ireland, and to 5° at Haparanda. Maxima during day below 40° in many Scottish localities and over a large portion of central Europe, and only 33° at Belfort, but above 70° at many stations in the far south of our area, and as high as 81° at Tunis.

Wind in morning mainly Easterly over Germany, the Netherlands, England, and France; light or moderate in most regions, but strong to a gale in the south of this country and over France. Westerly breezes prevailing both in the far north and far south of our area. Easterly current continuing strong to a gale on our south coast and the Channel throughout the day, and that from the Westward increasing somewhat in force in the far north of Europe.

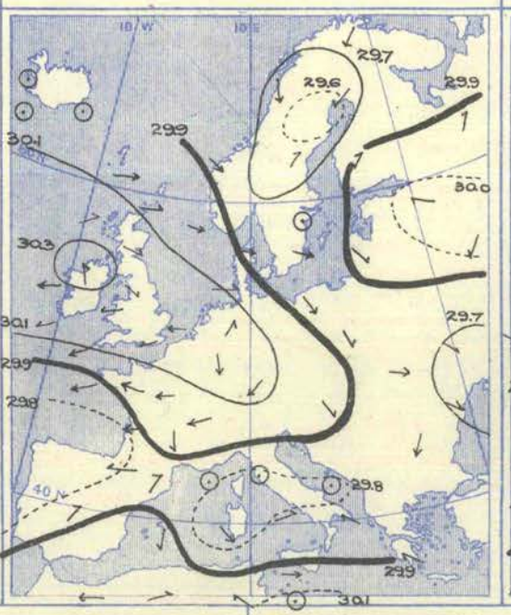
Barometer in morning 30·2 ins. to above 30·3 ins. in a long anticyclonic band extending from beyond the west of Scotland across the North Sea to Finland. Below 29·4 ins. in a depression having its minimum over the north of Spain. Latter system decreasing in intensity during day without materially changing its position. Barometer falling very briskly in the northern parts of Scandinavia, but little change taking place within the high pressure band.

Friday, 19th November, 1909.

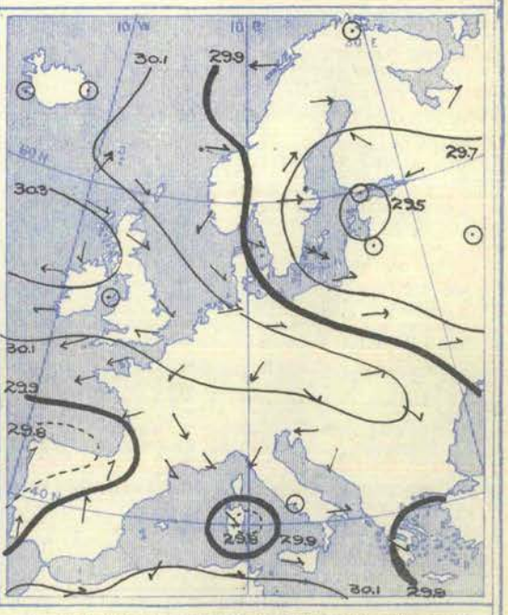
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright in the south of our area and in a few places elsewhere, but cloudy or overcast over our area generally, with rain in the north of Italy and at Skudesnaes, and snow at Brest and Uleaborg. Showers experienced later in the north and extreme north-west of these Islands, and various quantities of precipitation over a large area on the Continent.

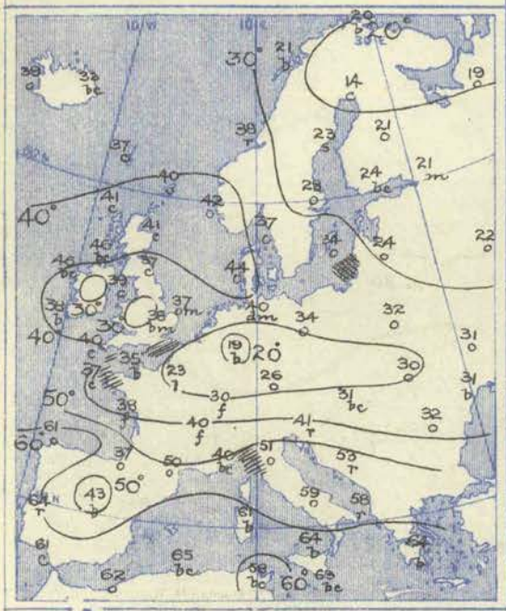
Temperature changed rather irregularly generally, risen in the north of these Islands. Morning readings below 20° in central and northern Russia, below 32° over a large area in the east and north and also in central Ireland, Belgium, and the east of France. Above 60° over much of the Mediterranean region, and nearly as high as 70° in a few places. Maxima during day between 40° and 45° over most of this country and the north and west of France, below 40° over nearly the whole of central Europe, and below 32° over the major portion of Russia. Frost at night over England and central Ireland.

Wind in morning anticyclonic over the United Kingdom and its immediate neighbourhood, and also in the central parts of Russia, but cyclonic elsewhere. Easterly current strong to high on the English Channel, and some fresh or strong breezes from the Westward prevailing on the coast of Norway and on some shores of the Mediterranean. A North-Westerly gale setting in by evening at Wisby, but not much change as a whole.

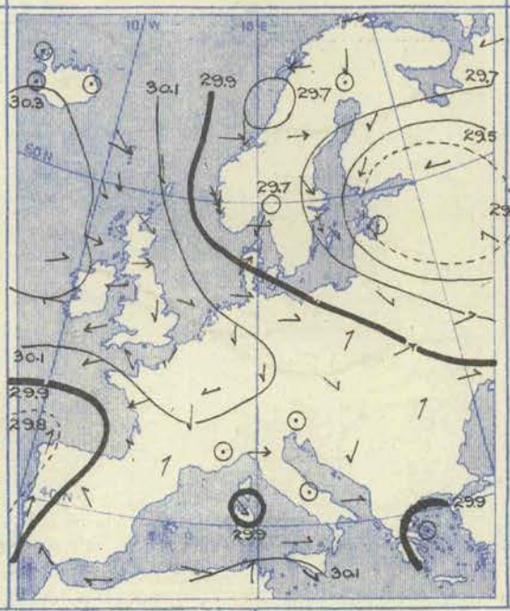
Barometer in morning ranging from above 30·3 ins. in the west of Scotland and north of Ireland, and above 30·0 ins. in central Russia, to below 29·8 ins. in a depression over Italy and the adjacent Islands, and to below 29·6 ins. in a disturbance over the north of Sweden, and also in another over the south of Russia. Swedish disturbance travelling south-eastwards during day, and barometer becoming lowest over the Baltic Provinces of Russia. Little modification taking place within the high pressure area.

Saturday, 20th November, 1909.

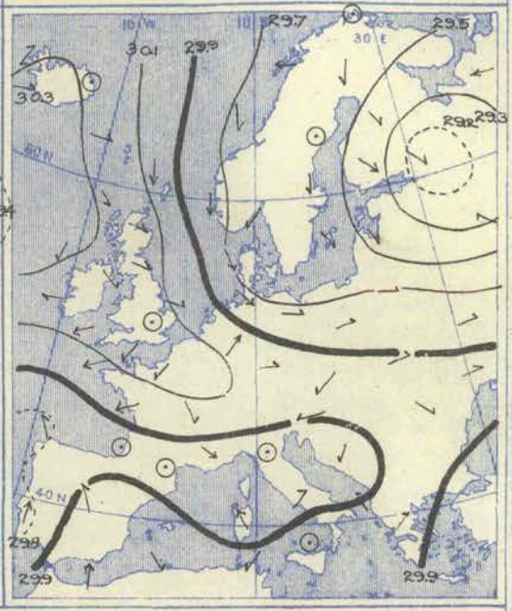
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast in places, but fair to fine and bright over our area generally; rain falling on the shores of the Adriatic, as well as at Lisbon and Christiansund, and showers at Castlebay. Very heavy rain later in Portugal, and some slighter falls of snow or sleet in the east of this country, the Netherlands, and in various parts of central Europe and Scandinavia.

Temperature fallen in most regions. Morning readings between 50° and 60° or rather higher in the Mediterranean district, but below 32° over a large portion of the Continent and at several stations in this country, and below 20° at Frankfurt and also in the north of Sweden. Maxima during day 75° in Algeria, 74° at Palermo, 72° at Athens, and between 60° and 70° in the south generally. Below 40° over the central countries and France, and not much above it in England.

Wind in morning cyclonic in the north and north-east of the Continent, mainly anticyclonic elsewhere. Light or moderate in force generally, but North-Westerly current blowing a gale at Skudesnaes and over the Baltic. No change of a general character later in day, but force becoming less over the Baltic and on the south-west coast of Norway.

Barometer in morning above 30·3 ins. off the north-west coasts of these Islands, and relatively high in a band extending thence to the Black Sea. Below 29·4 ins. in a large depression centred over Russia, and below 29·7 ins. in a shallow system over Norway. Other low pressure systems shown in the south and south-west of our area. Some minor modifications taking place in the height of the barometer during day, but little alteration occurring in the general distribution of pressure.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
												Metres.	
1	1909. Nov. 14th, 10.52 a.m. to 11.30 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	281° 95% 145°, 4		276° 90% 200°, —	271° 100%				? ?	?	Heavy rain squall. The wind veered to 245°, increased in force, and then suddenly dropped calm. The trace is blotted, but a large fall of temp. seems to have occurred at 500–1,000 m.
2	Nov. 15th, 4.20 p.m. to 5.40 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	272° 88% 11°, 5	271·8° 88% 24°, 9	271·2° 87% 33°, 12	268·5° 77% 56°, 13				267° 74% —°, 14	1,180	Fair to overcast. Light breeze. Clouds, Cu. Kite became very slack and caused a much varying pull during wind-in.
3	Nov. 16th, 11.30 a.m to 1.56 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	274° 95% 11°, 4	273° 95% 20°, 7	272·3° 95% 26°, 8	268·5° 96% 60°, 16	265·3° 94% 62°, 17			264·3° 89% —°, 17	1,680	Fine. Gentle breeze. Clouds, Cu.
4	Nov. 17th, 10.36 a.m. to 11.25 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	278·5° 70% 60°, 7		275° 60% 70°, 15					273° 70% 70°, 17	750	
5	Nov. 17th, 11.25 a.m. to 1.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	276° 86% 45°, 10	275° 86% 56°, 12	274·3° 86% 60°, 14	270·6° 86% 98°, 17	271° 58% 104°, 16	269·7° 56% 99°, 16		268° 57% 99°, 16	2,100	Fine early. Later overcast, with snow showers. Fresh to strong breezes. Clouds, Cu. and Str., and (later) Ni.
6	Nov. 18th, 10.47 a.m. to 1.40 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	275·3° 84% 22°, 9	274·7° 84% 31°, 11	274·2° 84% 37, 13	271·8° 45% 52°, 21	267·8° 20% 50°, 28			266·6° 14% 50°, 28	1,710	Fair morning. Overcast later. Fresh breezes. Clouds, Cu. and St.-Cu.
7	Nov. 19th, 3.50 p.m. to 3.57 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind ..	274·3° 88% 23°, 5	—° —% 49°, 5	—° —% 52°, 6	—° —% 60°, 18				—° —% 74°, 17	1,230	Fair. Light breeze. Clouds, Cu. Pilot balloon.
8	Nov. 20th, 10.40 a.m. to 11.50 a.m.	Brighton, 115 m.	Temperature Humidity .. Wind	279° 70% 30°, 6	278·5° 70% 30°, 10	277° 70% 30°, 12					275° 70% 20°, 12	800	Clear sky. Steady wind at all altitudes.
9	Nov. 20th, 3.42 p.m. to 4.32 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind ..	276° 92% Calm.	275·3° 91% Calm.	275° 90% 330°, 1					273·7° 90% 354°, 3	720	Fair to fine early. Misty and overcast later. Calm. Clouds, Cu. and Cu.-Ni. Captive balloon.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6	7	8	9
No. of Kites	1	1	1	1	1	2	—	1	1
Area of Surface (sq. metres) ..	7	7·6	7·6	7	7·6	15·2	—	7	—
Capacity of Balloon (cub. metres)	—	—	—	—	—	—	0·25	—	3·6
Length of Wire (metres)	1,100	—	—	800	—	*	—	1,500	—

* 1 wire to each kite.

63, Victoria Street, London, S.W. *November 24th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 47. FORTY-SEVENTH WEEK, SUNDAY NOVEMBER 21ST TO SATURDAY NOVEMBER 27TH, 1909. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather was again fair to fine over the Kingdom as a whole, but rain, generally slight, was of rather frequent occurrence late in the week in Ireland and also in some parts of Great Britain. A little snow was experienced in some northern and eastern localities early in the period, lightning was observed at Stonyhurst on Saturday, and on the same day thunderstorms passed over Newton Rigg and Shrewsbury.

Temperature was below the average, the deficit varying from about 1°½ in Scotland N. to more than 4° generally, to nearly 6° in Ireland S., and to nearly 7° in England S.E. The highest of the maxima were recorded either on the 26th or 27th over the greater part of the Kingdom, and ranged from 56° in Ireland S. to 48° in England N.E. and 47° in England E. The lowest of the minima, which were mostly registered between the 22nd and 24th, were below 20° in Ireland, England S.W. and Scotland W., the lowest value being 15° at Llangammarch Wells and Markree Castle on the 23rd. Elsewhere the figures ranged from 21° in Scotland E. to 28° in England N.E. and to 30° in the English Channel. The lowest grass readings reported were 10° at Llangammarch Wells and Markree Castle, 13° at West Linton, 14° at Hereford and Cardiff, 15° at Glasgow, Aspatria and Newton Rigg, and 16° at Cambridge and Colmonell.

Mean Temperature of the Sea.—At all stations except Aberdeen the water was colder than during the corresponding week of last year. On several parts of the coast the difference amounted to more than 3°, and at Eastbourne to more than 7°. The mean values for the week ranged from 49°·4 at Plymouth, 48°·5 at Lamlash, and 48° at Wick to 41°·9 at Margate and Kirkwall, and to 41°·6 at Burnmouth.

Rainfall was below the normal in all districts. In England S. the total fall was only 0·06 inch, and in the Midland Counties only 0·12 inch.

Bright Sunshine exceeded the average, the excess being very decided over the western districts. The percentage of the possible duration ranged from 48 in England S.W., 42 in the English Channel, and 41 in Ireland S. to 23 in the Midland Counties, and to 19 in Scotland N.

Barometer and Wind.—Until the period drew towards its close the general distribution of pressure was favourable for light or moderate winds between North and North-West, a large anticlyclonic system extending over these Islands from the Atlantic. By Friday, however, the pressure maximum had been transferred to France and Germany, and a very extensive depression began to spread over the United Kingdom from the Icelandic region, while the wind backed towards South-West and South. On Saturday the depression made considerable progress over the country, and the wind increased in force from the Southward very generally, and blew a strong breeze to high wind on exposed parts of the west and north-west coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 364.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Very deficient	Very deficient	Very deficient	Deficient
	Rainfall ...	Light	Light	Moderate	Moderate	Light	Light	Light	Light	Light	Light	Light	Very light
	Sunshine ...	Abundant	Abundant	Abundant	Abundant	Moderate	Abundant	Abundant	Abundant	Very abundant	Abundant	Very abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 12 weeks from Sept. 5th 1909.	Warmth ...	2 * 5	3 * 5	2 * 6	3 * 5	3 * 5	3 * 6	3 * 6	3 * 6	3 * 6	4 * 6	4 * 6	3 * 5
	Rainfall ...	4 * 7	4 * 4	0 * 4	2 * 1	2 * 4	4 * 4	3 * 5	3 * 6	3 * 5	3 * 7	4 * 8	4 * 5
	Sunshine ...	5 * 2	5 * 3	3 * 4	2 * 6	2 * 4	3 * 2	5 * 5	5 * 1	4 * 3	5 * 2	5 * 2	4 * 4

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

8235 450 Wy. & S. Ltd. 12—09.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree' signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-SEVENTH WEEK—November 21st to November 27th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	52	26	43·9	35·0	39·5	− 1·6	5	− 10	26	+ 5	4	− 1	0·46	−0·82	10	+ 3	19	+ 6
Eastern																		
1. SCOTLAND, EAST	50	21	42·8	32·5	37·6	− 2·7	2	− 12	33	+ 6	4	− 1	0·28	−0·36	14	+ 4	27	+ 7
2. ENGLAND, N.E.	48	28	42·2	32·6	37·4	− 4·6	1	− 17	33	+16	3	− 1	0·33	−0·20	17	+ 5	31	+10
3. ENGLAND, EAST	47	26	42·1	32·6	37·4	− 4·4	0	− 20	33	+13	4	0	0·24	−0·23	19	+ 7	33	+12
4. MIDLAND COUNTIES	51	24	42·9	30·9	37·0	− 4·4	3	− 15	40	+17	2	− 2	0·12	−0·38	13	+ 2	23	+ 4
5. ENGLAND, S.E.	50	23	42·4	30·9	36·7	− 6·9	1	− 25	39	+25	1	− 3	0·06	−0·53	17	+ 5	29	+ 8
Western																		
6. SCOTLAND, WEST	53	17	44·6	31·2	37·9	− 4·8	7	− 13	40	+25	3	− 2	0·57	−0·62	19	+ 9	35	+17
7. ENGLAND, N.W.	51	23	43·7	32·8	38·3	− 4·7	5	− 16	34	+21	4	0	0·53	−0·26	17	+ 6	29	+11
8. ENGLAND, S.W.	53	15	45·4	32·9	39·2	− 5·4	10	− 19	35	+24	3	− 2	0·28	−0·60	28	+ 15	48	+25
9. IRELAND, NORTH	54	15	46·2	32·6	39·4	− 3·7	12	− 9	36	+22	4	− 1	0·42	−0·48	19	+ 7	34	+13
10. IRELAND, SOUTH	56	17	46·1	31·2	38·7	− 5·8	11	− 18	41	+29	4	0	0·44	−0·47	24	+ 9	41	+16
11. ENGLISH CHANNEL	52	30	48·2	37·3	42·8	− 5·5	25	− 21	13	+12	2	− 3	0·14	−0·65	26	+ 11	42	+17

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 12 Weeks, September 5th to November 27th, 1909.

0. SCOTLAND, NORTH	68	12	*	*	*	*	444	− 68	162	+70	58	− 2	12·82	−1·37	244	+ 43	28	+ 5
Eastern																		
1. SCOTLAND, EAST	70	3	*	*	*	*	453	− 89	207	+86	50	0	7·56	−0·31	261	+ 19	30	+ 2
2. ENGLAND, N.E...	70	18	*	*	*	*	607	− 35	120	+56	48	+ 3	5·13	−1·67	245	− 23	27	− 3
3. ENGLAND, EAST	74	24	*	*	*	*	727	− 6	92	+17	53	+ 9	6·51	+0·14	263	− 37	29	− 4
4. MIDLAND COUNTIES.. ..	71	20	*	*	*	*	634	− 35	147	+55	50	+ 7	6·16	−0·67	236	− 25	26	− 3
5. ENGLAND, S.E.	71	22	*	*	*	*	776	− 51	96	+47	48	+ 5	9·96	+2·11	298	− 4	33	− 1
Western																		
6. SCOTLAND, WEST	70	12	*	*	*	*	565	− 49	175	+110	44	− 7	11·27	−1·99	257	+ 14	29	+ 2
7. ENGLAND, N.W...	69	20	*	*	*	*	618	− 72	121	+74	47	− 1	9·44	−0·26	269	+ 21	30	+ 2
8. ENGLAND, S.W...	72	15	*	*	*	*	734	− 62	89	+52	50	0	10·18	−0·75	314	+ 24	35	+ 3
9. IRELAND, NORTH	68	13	*	*	*	*	612	− 32	134	+79	52	− 3	9·33	−0·81	285	+ 40	32	+ 5
10. IRELAND, SOUTH	72	16	*	*	*	*	704	− 45	123	+76	56	+ 7	8·76	−1·22	325	+ 41	36	+ 5
11. ENGLISH CHANNEL	74	30	*	*	*	*	1000	− 37	22	+20	51	− 3	8·93	−0·65	342	− 13	38	− 1

THE YEAR.—Aggregates, &c., for the Period of 47 Weeks, January 3rd to November 27th, 1909.

0. SCOTLAND, NORTH	72	12	*	*	*	*	1872	−194	697	+ 48	222	+ 2	38·38	−7·22	1125	+ 40	27	+ 1
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	2048	−264	880	+139	187	+ 4	29·02	+1·58	1280	− 14	31	0
2. ENGLAND, N.E.	85	14	*	*	*	*	2580	− 62	700	+161	170	+ 5	23·13	+0·87	1360	− 42	33	− 1
3. ENGLAND, EAST	85	12	*	*	*	*	2824	−169	646	+ 56	176	+16	21·80	+0·52	1562	+ 35	38	+ 1
4. MIDLAND COUNTIES.. ..	86	8	*	*	*	*	2729	−176	789	+164	165	+ 7	23·16	−0·43	1405	+ 45	34	+ 1
5. ENGLAND, S.E...	86	0	*	*	*	*	2957	−289	578	+148	161	+ 8	27·33	+3·37	1680	+135	41	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2346	−171	620	+130	178	−13	40·27	−1·84	1384	+ 60	33	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2542	−215	587	+154	176	0	31·01	+0·10	1470	+125	35	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2846	−242	479	+141	174	− 1	30·52	−3·06	1646	+139	40	+ 3
9. IRELAND, NORTH	78	13	*	*	*	*	2529	−102	449	+ 49	207	0	31·08	−2·92	1249	+ 13	30	0
10. IRELAND, SOUTH	81	15	*	*	*	*	2947	− 88	388	+ 82	195	+11	29·79	−5·37	1450	+ 58	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	3560	− 63	173	+ 62	162	−25	24·80	−3·46	1929	+ 98	47	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				NAMES OF STATIONS.
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*48*	*26th*	*32*	*21st*	*42·5*	*37·5*	*40·0*	—	*1*	*16*	*6*	*0·48*	—	*3·2*	—	*7*	—	*Balta Sound.*
	a Sumburgh Head ..	48	26th, 27th	31	22nd	43·7	33·9	38·8	- 3·7	5	30	7	0·55	- 0·38	10·9	+ 3·5	22	+ 7	Deerness.
	a Stornoway	49	26th	33	23rd	44·3	37·4	40·9	- 1·6	6	18	6	0·62	- 0·73	10·0	+ 0·9	20	+ 2	Stornoway.
	a Castlebay, Barra Isd.	*50*	*25th, 26th*	*36*	*23rd*	*47·4*	*40·0*	*43·7*	- *0·5*	*20*	*6*	*6*	*0·57*	—	*12·2*	—	*23*	—	*Castlebay.*
	a Wick	52	25th	35	21, 22, 25th	45·1	37·0	41·1	- 0·5	9	20	5	0·55	- 0·10	*	*	*	*	
	p Strathpeffer	48	26th, 27th	34	23rd	43·8	35·9	39·9	- 0·7	5	23	2	0·06	- 0·60	12·4	+ 3·8	24	+ 7	Strathpeffer.
	p Glencarron ..	50?	26th	30?	23rd	44·0?	35·7?	39·9?	- 0·5	6	24	5?	0·52?	- 1·61	*	*	*	*	
	p Fort Augustus	48	26th	26	23rd	43·2	31·1	37·2	- 4·0	3	39	2	0·21	- 0·80	5·2	+ 1·7	10	+ 3	Fort Augustus.
	p Fort William	48	26th, 27th	26	23rd	43·5	33·7	38·6	- 3·8	4	30	4	0·68	- 1·25	*	*	*	*	
1. SCOTLAND E.	*p* Gordon Castle S	50	26th	33	22nd	43·9	35·2	39·6	- 2·1	5	25	4	0·28	- 0·28	*7·5*	—	*14*	—	*Gordon Castle.*
	a Nairn	49	26th	32	23rd	43·6	35·9	39·8	- 1·0	4	23	5	0·12	- 0·35	12·1	—	23	—	Nairn.
	a Aberdeen	46	25th	30	26th	42·9	34·1	38·5	- 3·1	3	28	5	0·24	- 0·43	11·2	- 0·8	22	- 2	Aberdeen.
	a Balmoral	46	25th	26	23rd	42·3	32·6	37·5	- 0·3	1	33	3	0·40	- 0·46	5·6	—	11	—	Crathes S.
	p Crieff .. .. S	49	24th	27	23rd	45·2	31·7	38·5	- 2·3	9	39	3	0·30	- 0·75	26·7	—	50	—	Balruddery
	a Leith	48	26th	29	23, 24, 27th	44·1	31·9	38·0	- 4·8	6	37	1	0·27	- 0·18	14·6	+ 5·6	27	+10	Edinburgh.
	a West Linton .. S	42	26th	21	23rd	38·8	26·5	32·7	- 6·9	0	65	3	0·40	—	*20·1*	—	*37*	—	*West Linton.*
	p Marchmont .. S	45	24th	28	23rd	41·3	31·7	36·5	- 3·8	0	39	4	0·25	- 0·44	14·8	+ 4·1	27	+ 8	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	45	21, 24, 26th	29	26th	42·9	33·4	38·2	- 3·8	3	31	4	0·50	- 0·24	19·1	—	35	—	Cockle Park.
	a Shields	45	24th, 25th	30	24, 26, 27th	43·1	31·6	37·4	- 5·4	3	38	3	0·43	- 0·04	*11·9*	+ *4·7*	22	+ *9*	*Newcastle.*
	p Durham	44	24th, 25th	28	26th	41·1	31·8	36·5	- 4·9	0	39	3	0·32	- 0·21	16·8	+ 5·3	31	+10	Durham.
	p Rounton .. M	43	24th	29	24th, 26th	40·2	31·5	35·9	- *5·5*	0	43	4	0·49	+ 0·03	*	*	*	*	
	p Scarborough .. M	46	24th	35	26th	44·3	37·0	40·7	- 2·6	6	19	6	0·64	+ 0·08	11·4	—	20	—	Scarborough.
	p York	45	25th	30	26th	41·2	32·4	36·8	- 5·6	0	36	3	0·17	- 0·29	17·3	+ 9·0	31	+16	York.
	a Spurn Head	45	26th	35	22nd, 24th	41·9	36·3	39·1	- 4·6	0	20	4	0·26	- 0·15	*	*	*	*	
	a Lincoln	48	27th	28	24, 26, 27th	42·8	29·6	36·2	- 5·5	2	44	1	0·01	- 0·41	23·3	—	41	—	Skegness.
	a Fulbeck	46	27th	29	22nd, 23rd	42·4	30·0	36·2	- 5·0	1	42	3	0·13	- 0·31	16·4	—	29	—	Rauceby.
															21·9	—	*38*	—	*Lowestoft.*
3. ENGLAND, E.	*p* Cromer	47	21st, 25th	33	27th	43·8	35·3	39·6	- 2·6	5	25	6	0·36	—	20·5	—	36	—	Cromer.
	p Hillington .. M	43	21st	30	23rd	41·5	32·4	37·0	- 4·7	0	35	3	0·28	- 0·28	19·5	+ 6·7	34	+12	Hillington.
	a Yarmouth	45	25th	35	25, 26, 27th	42·0	35·9	39·0	- 4·1	0	21	5	0·39	- 0·13	19·3	—	33	—	Yarmouth.
	a Norwich	46	27th	26	23rd	41·7	32·4	37·1	- 5·3	0	34	7	0·47	—	*	*	*	*	
	p Geldeston	46	25th	29	23rd, 26th	43·2	32·3	37·8	- 5·2	3	35	6	0·43	- 0·08	21·7	+ 8·1	37	+14	Geldeston.
	p Cambridge	44	21st, 25th	27	24th, 26th	41·5	29·6	35·6	- 6·7	0	45	3	0·04	- 0·38	14·5	+ 1·9	25	+ 3	Cambridge.
	a Felixstowe	*45*	*27th*	*26*	*23rd*	*42·0*	*31·7*	*36·9*	- *7·0*	*0*	*36*	*2*	*0·05*	—	*25·7*	—	*44*	—	*Felixstowe.*
	a Clacton-on-Sea ..	43	25th, 27th	30	23, 24, 26th	41·1	31·7	36·4	- 7·2	0	39	1	0·02	—	22·5	—	38	—	Clacton.
	a Rothamsted ..	47	27th	27	26th	41·1	30·6	35·9	- 6·1	0	43	2	0·07	- 0·53	18·7	+ 5·8	32	+10	Rothamsted.
	a Shoeburyness ..	*47*	*27th*	*29*	*23rd*	*42·0*	*33·0*	*37·0*	- *7·0*	*0*	*35*	*1*	*0·05*	- *0·37*	*23·4*	—	*38*	—	*Southend.*
	p Tottenham	46	27th	28	26th	42·8	32·9	37·9	- 5·6	2	33	1	0·06	—	17·6	—	30	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	44	24th	30	26th	41·3	31·8	36·6	- 4·6	0	38	3	0·40	- 0·22	18·2	—	33	—	Harrogate.
	a Bawtry	48	27th	29	22nd, 26th	42·3	30·9	36·6	- 5·2	1	39	2	0·03	- 0·42	13·4	+ 3·6	24	+ 6	Worksop.
	p Buxton .. M	*42*	*26th*	*28*	*22nd*	*39·2*	*30·8*	*35·0*	- *4·8*	*0*	*49*	*1*	*0·03*	- *1·07*	*8·8*	—	*15*	—	*Buxton.*
	a Nottingham ..	46	27th	28	24th	43·1	31·0	37·1	- 5·1	3	40	1	0·14	- 0·30	6·9	—	12	—	Nottingham.
	p Birmingham, Edgbsn	44	26th	28	23rd	41·1	33·4	37·3	- 4·8	0	33	2	0·09	- 0·44	4·1	—	7	—	Birmingham.
	a Raunds .. M	47	27th	27	21st, 24th	42·6	28·7	35·7	- 6·0	2	47	3	0·08	—	*	*	*	*	
	a Oxford	47	27th	29	21, 23, 24th	43·0	31·3	37·2	- 5·5	3	39	2	0·05	- 0·48	13·6	+ 1·3	23	+ 2	Oxford.
	a Cheadle .. M	46	27th	28	22nd, 23rd	40·8	30·9	35·9	- 5·1	0	43	2	0·13	- 0·52	8·4	—	15	—	Sheffield.
	p Shrewsbury	49	26th	24	23rd	45·0	31·5	38·3	- 4·8	8	39	2	0·19	—	*	*	*	*	
	a Hereford .. M	50	27th	24	23rd	44·7	31·4	38·1	- 4·4	8	39	3	0·18	- 0·37	*	*	*	*	
	a Cirencester	51	24th	27	24th	44·0	30·4	37·2	- 4·3	6	42	2	0·07	- 0·59	18·1	+ 5·8	31	+10	Cirencester.
	a Bath	49	27th	25	23rd, 24th	44·4	28·7	36·6	- 6·8	7	49	1	0·06	- 0·63	24·6	—	42	—	Bath.
															14·9	—	*25*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	45	27th	29	25th, 26th	41·5	31·3	36·4	- 6·6	0	39	1	0·04	- 0·43	16·1	+ 5·5	27	+ 9	Kew.
	a Marlborough ..	48	27th	23	24th	42·3	27·4	34·9	- 6·5	1	52	1	0·05	- 0·68	?12·0	+ 1·4	?20	+ 2	Marlborough.
	a Margate	48	27th	31	26th	42·6	35·0	38·8	- 5·6	2	25	1	0·06	- 0·46	11·6	- 1·5	20	- 3	Margate.
	a Wisley, Surrey ..	48	27th	27	21st, 23rd	42·3	29·8	36·1	- 7·6	1	43	1	0·04	—	14·1	—	24	—	Wisley.
	a Swarraton .. M	48	27th	23	24th	41·5	28·7	35·1	- 7·1	0	48	2	0·09	- 0·65	25·3	—	42	—	Worthing.
	a Tunbridge Wells M	46	27th	26	26th	40·3	29·4	34·9	- 8·0	0	50	2	0·11	- 0·66	15·3	+ 0·8	26	+ 1	Tunbridge Wells.
	a Dungeness	48	27th	26	26th	43·1	28·3	35·7	- 9·6	3	49	1	0·05	- 0·52	21·0	—	36	—	Littlestone.
	p Hastings	46	27th	31	23rd, 24th	42·8	33·3	38·1	- 6·9	2	31	1	0·06	- 0·65	*25·1*	+ *9·5*	*42*	+*16*	*Hastings.*
	p Southampton ..	46	27th	28	23rd, 24th	43·2	32·0	37·6	- 7·0	3	36	1	0·07	- 0·66	14·8	+ 1·2	25	+ 2	Southampton.
	a Ventnor	50	27th	31	22nd, 23rd	44·5	34·1	39·3	- 7·9	7	29	1	0·05	- 0·70	21·3	+ 6·9	36	+12	Ventnor.
															21·7	+ 7·4	36	+12	Eastbourne.
LONDON .. — ..	*a Westminster* ..	*45*	*27th*	*30*	*24th, 25th*	*42·6*	*31·4*	*37·0*	- *6·4*	*2*	*38*	*1*	*0·01*	- *0·50*	*5·1*	- *0·2*	*9*	*0*	*Westminster.*
	a Greenwich	*47*	*27th*	*28*	*26th*	*42·3*	*31·6*	*37·0*	- *7·4*	*1*	*37*	*2*	*0·05*	- *0·46*	*14·7*	+ *4·7*	*25*	+ *8*	*Greenwich.*
6. a, SCOTLAND. W. ..	*a* Laudale	52	27th	30	22nd	45·3	35·4	40·4	- 3·1	9	26	4	1·49	- 0·47	*	*	*	*	
	a Poltalloch .. S	48	26th	21	22nd, 23rd	44·7	30·6	37·7	- 5·1	8	42	3	0·65	- 0·62	*	*	*	*	
	p Glasgow	46	26th	26	23rd	42·9	33·6	38·3	- 3·9	3	30	2	0·32	- 0·54	13·8	+ 8·8	26	+16	Glasgow.
	p Rothesay .. S	49	27th	26	23rd	44·7	33·4	39·1	- 4·1	8	32	3	0·46	- 0·73	*	*	*	*	
	a Kilmarnock	48	27th	17	23rd	44·0	25·9	35·0	- 7·0	6	58	2	0·32	—	*13·7*	—	*25*	—	*Kilmarnock.*
	a Colmonell	53	25th	19	23rd	47·3	29·0	38·2	- 3·8	15	50	2	0·43	- 0·82	*	*	*	*	
	p Dumfries	46	26th	25	23rd	42·7	28·9	35·8	- 6·2	2	46	2	0·43	- 0·47	*17·3*	—	*32*	—	*Dumfries.*
	p Cally, Gatehouse S	48	27th	20	23rd	43·6	28·3	36·0	- 5·9	4	49	2	0·48	- 0·79	*	*	*	*	
b, ISLE OF MAN ..	*p* Douglas	50	26th	31	23rd	45·9	35·7	40·8	- 3·9	11	25	5	0·55	- 0·55	24·4	+11·3	44	+20	Douglas.
															19·5	—	34	—	Hoylake.
7. a, ENGLAND, N.W. ..	*p* Aspatria	46	26th	23	23rd	42·0	30·2	36·1	- 5·7	0	41	3	0·48	- 0·50	17·5	—	32	—	Aspatria.
	p Newton Rigg ..	44	24th	23	26th	40·1	26·6	33·4	- 6·9	0	60	2	0·41	- 0·45	11·9	+ 1·2	22	+ 2	Newton Rigg.
	p Stonyhurst	49	25th	29	23rd	43·1	31·8	37·5	- 4·5	3	37	3	0·49	- 0·55	14·2	+ 4·8	25	+ 8	Stonyhurst.
	p Blackpool .. M	46	24th, 26th	27	23rd	43·5	31·7	37·6	- 5·7	4	37	4	0·41	- 0·40	18·8	+ 9·2	33	+16	Blackpool.
	p M nch'ster, Prestwich	44	26th, 27th	24	21st	41·1	30·4	35·8	- 6·5	0	43	3	0·30	- 0·48	*5·6*	- *0·6*	*10*	- 1	*Prestwich.*
	a Liverpool (Bidston)	49	27th	33	22nd	44·3	35·6	40·0	- 2·7	6	24	5	0·28	- 0·31	*22·4*	—	*39*	—	*Liverpool.*
	a Hawarden Bridge ..	51	26th, 27th	29	22nd	46·8	33·5	40·2	- 4·2	13	33	4	0·38	- 0·15	*18·5*	+ *8·8*	*33*	+*16*	*Southport.*
															20·9	—	*37*	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	49	26th	32	23rd	46·0	37·5	41·8	- 3·8	11	19	5	0·53	- 0·17	16·4	+ 4·8	29	+ 8	Llandudno.
	a Holyhead	50	26th, 27th	35	23rd	47·3	38·9	43·1	- 3·0	21	9	3	1·06	+ 0·08	24·5	—	42	—	Aberdovey.
	p Bettws-y-Coed ..	47	26th, 27th	26	23rd, 24th	42·9	31·3	37·1	- 8·3	3	38	5	0·92	—	9·7	—	17	—	Bettws-y-Coed.
															26·2	—	45	—	Aberystwyth.
8. a, SOUTH WALES ..	*a* Llangammarch Wells	48	21st, 27th	15	23rd	44·3	25·2	34·8	- 6·7	6	61	4	0·55	—	17·1	—	30	—	Llangammarch Wells.
	a Pembroke	52	27th	31	23rd	48·4	36·9	42·7	- 4·6	26	14	4	0·37	- 0·53	33·2	+19·6	56	+33	Pembroke.
	a Cardiff	48	21st, 27th	27	23rd	45·5	34·2	39·9	- 3·5	10	30	2	0·43	- 0·53	*23·5*	—	*40*	—	*Cardiff.*
															31·2	+*17·5*	*53*	+*20*	*Tenby.*
	a Clifton	50	27th	27	23rd	44·2	32·3	38·3	- 5·8	6	36	1	0·16	- 0·59	*21·7*	—	*37*	—	*Clifton.*
	a Shaftesbury .. M	47	27th	27	23rd	41·7	31·8	36·8	- 6·0	0	36	1	0·02	- 0·79	*	*	*	*	
	a Arlington	49	27th	25	23rd	44·0	31·9	38·0	- 5·7	6	37	4	0·62	- 0·73	33·6	+17·1	56	+29	Newquay.
b, ENGLAND, S.W. ..	*a* Cullompton .. M	51	27th	24	21, 22, 23, 24	45·7	27·1	36·4	- 7·6	10	55	3	0·12	- 0·73	21·4	+ 9·3	36	+16	Cullompton.
	a Portland Bill ..	52	27th	32	22nd, 23rd	46·4	37·7	42·1	- 4·7	19	12	1	0·05	—	*22·5*	—	*38*	—	*Weymouth.*
	p Plymouth	53	26th, 27th	28	24th	47·7	35·4	41·6	- 4·9	16	27	3	0·23	- 0·65	33·0	+18·8	55	+31	Plymouth.
	p Falmouth	50	27th	33	22nd	46·5	36·9	41·7	- 5·9	13	21	3	0·27	- 0·89	32·8	+16·8	58	+25	Falmouth.
															28·8	+*14·5*	*48*	+*24*	*Torquay.*
9. IRELAND, N.	*a Malin Head*	49	21, 25, 27th	37	27th	47·1	40·4	43·8	- 0·7	19	4	5	0·44	- 0·31	*	*	*	*	
a, West.	*a* Blacksod Point ..	54	24th	31	22, 23, 24th	48·9	35·4	42·2	- 3·8	29	18	4	0·72	- 0·54	*	*	*	*	
	p Markree Castle ..	50	26th	15	23rd	44·2	25·2	34·7	- 8·2	6	60	4	0·49	- 0·51	18·3	+ 6·8	33	+12	Markree Castle.
b, East.	*a* Birr Castle	50	27th	17	23rd	44·4	27·4	35·9	- 7·1	7	53	4	0·47	- 0·28	*18·5*	+ *4·7*	*33*	+ *8*	*Birr Castle.*
	p Armagh	49	21st	23	23rd	44·5	31·2	37·9	- 4·9	7	40	2	0·17	- 0·53	20·1	+ 8·1	36	+15	Armagh.
	a Donaghadee	51	21st, 26th	32	27th	48·1	36·0	42·1	- 2·2	26	17	3	0·25	- 0·49	*	*	*	*	
10. IRELAND, S. a, East.	*p* Dublin, City	50	26th	29	24th	45·0	34·9	40·0	- 5·3	8	27	3	0·18	- 0·46	22·1	+ 7·0	39	+12	Phœnix Park.
	a Kilkenny	49	27th	20	24th	44·7	28·3	36·5	- 6·8	8	50	4	0·40	- 0·36	*	*	*	*	
	a Waterford	50	26th, 27th	25	24th	45·1	31·1	38·1	- 6·6	9	40	4	0·30	- 0·63	*	*	*	*	
	a Birr Castle	50	27th	17	23rd	44·4	27·4	35·9	- 7·1	7	53	4	0·47	- 0·28	18·5	+ 4·7	33	+ 8	Birr Castle.
	a Foynes	51	25th, 27th	26	23rd	45·4	32·8	39·1	- 5·9	10	35	4	0·37	- 0·60	*	*	*	*	
b, West.	*a* Cahir .. .. M	50	27th	19	23rd, 24th	45·1	27·4	36·3	- 8·3	9	54	4	0·39	—	*	*	*	*	
	a Killarney	56	25th	25	23rd, 24th	48·8	30·6	39·7	- 5·6	19	45	3	0·64	- 0·79	*	*	*	*	
	a Valencia	52	25th, 27th	30	23rd, 24th	49·4	33·6	41·5	- 5·9	21	35	3	0·92	- 0·35	32·1	+17·8	55	+31	Valencia.
	a Roche's Point ..	54	25th	31	25th	47·3	35·0	41·2	- 5·5	15	29	5	0·29	- 0·79	21·4	—	36	—	Ballinacurra.
11. ENGLISH CHANNEL ..	*a* Scilly, St. Mary's ..	52	26th	36	24th	49·0	39·1	44·1	- 5·5	27	8	2	0·21	- 0·62	41·7	+25·2	70	+42	Scilly.
	a Jersey, St. Aubins ..	50	25th	30	24th	47·9	34·1	41·0	- 7·1	17	32	3	0·14	- 0·79	24·2	+ 7·4	40	+12	St. Heliers.
	a Guernsey	51	27th	34	24th	47·8	38·6	43·2	- 5·3	23	10	2	0·06	- 0·99	11·5	- 1·9	19	- 3	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 23·8 hrs.* (+ *9·0 hrs.*), *40 %* (+*15 %*); *Bournemouth, 21·5 hrs., 36 %*; *Bognor, 26·2 hrs., 44 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	39·4	—
0.	— —				
0.	— —				
1.	Aberdeen	—	—	—	42·6
1.	Crathes	4	18	37·4	42·3
1.	Balmoral	8	26	—	—
1.	West Linton	7	13	—	—
1.	Marchmont	7	24	35·0	—
2.	Cockle Park	4	26	34·8	40·9
2.	Durham	6	24	—	—
2.	York	—	—	40·5	46·4
2.	Hull	6	23	39·0	47·6
2.	Lincoln	—	—	38·1	45·7
2.	Rauceby	7	23	38·9	47·4
3.	Norwich	7	19	—	—
3.	Yarmouth	—	—	40·0	47·0
3.	Lowestoft	3	28	40·3	47·0
3.	Cambridge	7	16	37·9	46·3
3.	Clacton-on-Sea	6	23	41·5	48·2
3.	Southend	6	22	40·0	—
3.	Tottenham	7	22	—	47·9
4.	Harrogate	6	23	39·8	43·1
4.	Huddersfield	7	24	37·6	45·0
4.	Buxton	6	17	37·1	45·1
4.	Sheffield	7	21	39·3	46·3
4.	Nottingham	7	20	36·2	44·0
4.	Birmingham	4	26	40·1	47·0
4.	Oxford	7	20	—	—
4.	Hereford	7	14	—	—
4.	Cirencester	?	?	—	—
5.	Margate	1	30	41·2	46·3
5.	Greenwich	6	23	—	—
5.	Westminster	7	22	—	—
5.	Kew	7	20	38·2	47·6
5.	Canterbury				
5.	Tunbridge Wells	6	22	37·3	—
5.	Wisley	6	20	37·6	45·8
5.	Worthing	6	23	37·8	48·0
5.	Portsmouth	5	23	39·3	47·9
6.	Glasgow	6	15	—	—
6.	Rothesay	—	—	—	43·7
6.	Colmonell	4	16	—	—
6.	Dumfries	5	20	34·4	42·3
6.	Douglas	3	26	—	—
7.	Aspatria	6	15	—	—
7.	Newton Rigg	6	15	36·8	43·4
7.	Burnley	6	17	36·2	44·5
7.	Southport	5	18	35·0	42·5
7.	Manchester City	5	23	36·3	46·4
7.	Bettws-y-Coed	4	23	37·3	45·3
8.	Llangammarch Wells	5	10	38·8	47·4
8.	Cardiff	5	14	38·3	46·7
8.	Clifton	5	22	—	—
8.	Bath	—	—	39·6	47·5
8.	Plymouth	4	18	41·2	—
9.	Armagh	4	17	38·7	45·4
9.	Markree	6	10	38·7	47·4
10.	Dublin, Trin. Coll.	7	21	41·3	46·3
11.	Guernsey, Brooklyn	3	24	43·4	50·4

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	46	45	45·3
SCOTLAND, N.	Kirkwall	43	40	41·9
SCOTLAND, N.	Wick	48	48	48·0
SCOTLAND, E.	Cromarty	45	41	42·5
SCOTLAND, E.	Pennan Bay	43	41	42·2
SCOTLAND, E.	Aberdeen, Cove Bay	45	45	45·0
ENGLAND, N.E.	Burnmouth, Berwick	43	41	41·6
ENGLAND, N.E.	Scarborough	45	41	43·8
ENGLAND, E.	Shipwash Lightship	49	43	45·5
ENGLAND, E.	Margate‡	45	40	41·9
ENGLAND, S.E.	Eastbourne†	44	42	42·7
SCOTLAND, W.	Lamlash	49	48	48·5
SCOTLAND, W.	Ballantrae	44	43	43·7
ENGLAND, N.W.	Port Erin	50	48	49·0
ENGLAND, S.W.	Newquay	49	48	48·3
ENGLAND, S.W.	Plymouth†	51	49	49·4
ENGLAND, S.W.	Salcombe	50	46	47·4
IRELAND, N.W.	Sheephaven	47	46	46·5
IRELAND, N.W.	Teelin	49	46	47·4
IRELAND, S.W.	Cleggan	48	42	44·8
IRELAND, S.W.	Seafield	50	44	47·3
IRELAND, E.				

‡ Only one observation each day.

Additional Observations in the Upper Air.

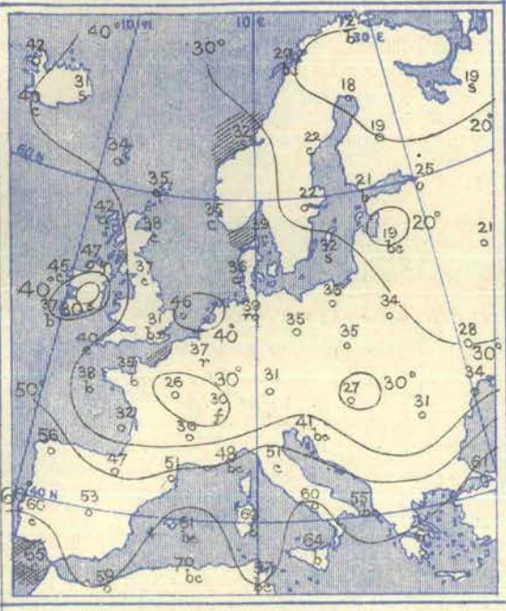
REGISTERING BALLOON ASCENTS.

Height kms.	1 Manchester, July 2nd, 1909, 6.50 a.m. Inst. No. 89. Pressure. Mm.	Mgd.	Temp. Ascent. A°	Temp. Descent. A°	Inst. No. 55. Pressure. Mm.	Mgd.	Temperature. A°	2 Manchester. August 5th, 1909. 9.0 p.m. Pressure. Mm.	Mgd.	Temp. A°	3 Manchester. October 1st, 1909, 6 p.m. Pressure. Mm.	Mgd.	Temp. A°	4 Pyrton Hill. October 6th, 1909, 5.25 p.m. Pressure. Mm.	Mgd.	Temp. A°	Wind Direction and Velocity, m.p.s.	5 Pyrton Hill. October 7th, 1909, 7 a.m. Pressure. Mm.	Mgd.	Temp. A°	6 Pyrton Hill. October 8th, 1909, 4.30 p.m. Pressure. Mm.	Mgd.	Temp. A°	7 Pyrton Hill. November 4th, 1909, 7.3 a.m. Pressure. mm.	mgd.	Temp. A°	Height kms.
Ground	765	1·020	289·	285	765	1·020	288·8	765	1·020	291·5	776	1·035	293·4	745	·994	283	220°, —	746	·995	281	741	·988	286	752	1·003	283	Ground
0·5	720	·960	289·5	282·5	720	·960	282·	720	·960	289·0	730	·973	288	712	·950	282	—	713	·951	278	708	·944	282	720	·960	281·5	0·5
1·0	677	·902	289·5	280	685	·914	280·	680	·907	287·5	690	·920	282	672	·896	279	245°, 9	672	·896	275	666	·888	279	678	·904	280	1·0
1·5	640	·853	289·5	279·5	640	·853	278·5	640	·853	288·5	650	·867	277	632	·843	276	245°, 9	632	·843	271	626	·835	278	638	·851	279	1·5
2·0	603	·804	288·5	278·5	600	·800	277·5	597	·796	287·5	610	·813	272	596	·795	272	245°, 9	595	·794	268·5	588	·784	276	600	·800	279	2·0
2·5	565	·754	288·	276	565	·754	275·5	562	·750	285·5	570	·760	268·5	560	·747	269	245°, 9	558	·744	267	553	·737	274	566	·755	277	2·5
3·0	530	·707	286·5	272·5	530	·707	272·5	530	·707	282·5	535	·714	266	526	·701	266·5	245°, 9	523	·697	265·5	518	·691	272	529	·705	273	3·0
3·5	500	·667	285·5	270·5	500	·667	269·5	500	·667	279·	500	·667	269	493	·657	264	245°, 9	490	·653	263	487	·649	270	496	·661	270·5	3·5
4·0	470	·627	283·	269	470	·627	267·	465	·620	275·	473	·631	257	462	·616	261	245°, 9	458	·611	260	457	·609	266·5	465	·620	269	4·0
4·5	440	·587	279·5	265	440	·587	263·	435	·580	272·	443	·591	264	433	·577	257·5	—	430	·573	257·5				436	·581	265·5	4·5
5·0	410	·547	277·5	260	410	·547	260·5	410	·547	269·5	415	·554	260·5	405	·540	255		403	·537	254·5				408	·544	262	5·0
5·5	385	·514	276·5	257·5	385	·514	258·	390	·520	266·5	390	·520	257	378	·504	250·5		377	·502	253·5				383	·511	258	5·5
6·0	360	·480	274·5	255	360	·480	254·	365	·487	263·5	365	·487	253	354	·472	247		353	·471	251·5				358	·478	255	6·0
6·5	337	·449	273·	252·5	335	·447	250·5	343	·457	260·5	340	·453	249	332	·443	244		330	·440	248				—	—	—	6·5
7·0	315	·420	271·5	249·5	315	·420	248·5	320	·427	256·5	320	·427	245	309	·412	241		308	·411	243·5				313	·417	247	7·0
7·5	295	·394	268·5	246	295	·394	246·	300	·400	252·5	300	·400	241	287	·382	238		288	·384	238·5				—	—	—	7·5
8·0	275	·367	266·5	241·5	275	·367	241·5	280	·373	249·	275	·367	237	268	·358	234·5		268	·358	235				273	·364	239	8·0
8·5	255	·340	265·	238	255	·340	237·	260	·347	245·5	255	·340	233	—	—	—		253	·337	231·5				—	—	—	8·5
9·0	235	·314	263·5	234·5	235	·314	233·5	243	·324	241·5	237	·316	229	233	·311	227·5 or 225·5		233	·311	229				237	·316	232	9·0
9·5	220	·293	262·5	231·5	220	·293	230·	225	·300	237·5	220	·293	224·5	—	—	—		217	·289	224·5				—	—	—	9·5
10·0	205	·274	259·	229·	205	·274	229·	210	·280	233·5	205	·274	220·5	200	·267	217		202	·270	220				204	·272	224	10·0
11·0	175	·234	258·	225·5	175	·234	228·	180	·240	225·5	175	·234	215·5	171	·228	214·5 or 217		172	·230	214				174	·232	218	11·0
12·0	150	·200	259·5	224·	150	·200	226·	153	·204	220·	150	·200	211	146	·195	216 or 213·5		147	·196	213				148	·198	212	12·0
13·0	130	·173	263·	224·5	130	·173	230·	132	·176	218·	125	·167	210	123	·164	216 or 218·5		126	·168	212·5				127	·169	206·5	13·0
14·0	110	·146	267·	226·	110	·146	231·5	112	·149	218·5	110	·146	209·5	107	·142	217 or 218·5		107	·142	214				108	·144	208	14·0
15·0	95	·126	270·5	230·5	95	·126	233·5	95	·126	219·				92	·123	217		92	·123	212				91	·121	212	15·0
16·0	82	·109	272·5	236·5				83	·110	220·								78	·104	212				78	·104	212	16·0
17·0	72	·096	274·	256·5														67	·089	212				66	·088	211·5	17·0
18·0	65	·087	274·	263·5																							18·0
19·0	56	·075	273·5	268·5																							19·0
20·0	50	·067	273·	272·																							20·0
22·0																											22·0
23·0																											23·0
24·0																											24·0
At Min. Pressure	45	·060	273·	273·	90	·120	234	76	·101	222·5								60	·080	212							At Min. Pressure
Max Ht.	20·5				15·3			16·5										17·7									Max Ht.

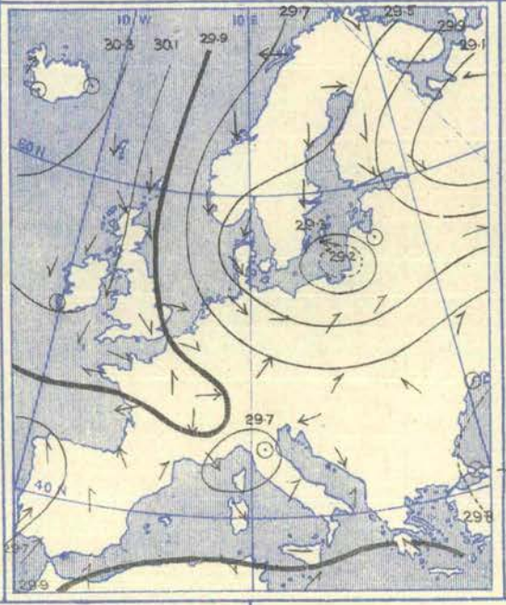
No. **1.**—Two Instruments, Nos. 89 and 55, were attached to this balloon. No. 89 was suspended inside the balloon, No. 55, about 4 metres below the balloon. No. 55 was dropped near Birmingham (110 km., S 12° E). No. 89 was found with the balloon near Stratford-on-Avon (140 km., S 18° E.). Gradient (0-8 km.), 0°·58 per 100 metres from both instruments, descent trace in case of No. 89. No. **2.**—Balloon fell at Drax near Selby distant 90 km., direction N 70° E. Mean Temperature Gradient (Ground to 8 km.) 0·62° per 100 metres. No. **3.**—Balloon fell at Tarm distant 130 km., direction N 25 E. Mean Temperature Gradient (Ground to 8 km.) 0·68° per 100 metres. No. **4.**—Balloon fell at Saffron Walden distant 109 km., direction 62°. Wind observations with 2 theodolites. Ascensional velocity 3·1 mps. Mean Temperature Gradient (Ground to 11 km.) 0.6° per 100 metres. Sent up just after shower; good trace. Traces cross at 10·0 km. No. **5.**—Balloon fell near Chelmsford distant 101 km., direction 80°. Wind observations with 2 theodolites. Ascensional velocity 3·1 mps. Mean Temperature Gradient (Ground to 11·3 km.) 0·64° per 100 metres. Isothermal layer at 11·3 km., **213**°. Particularly good trace both up and down. Every peculiarity of the one shown on the other. Cirrus formed rapidly at 8.0 a.m. Gale from South in afternoon and evening. Steady wind, 18 mps. from 195°. No. **6.**—Balloon fell at Wrentham, (Suffolk) distant 203 km. direction 65°. Gale from SSE., low scud. There are indications that the balloon reached 15 km., but the trace cannot be deciphered above 4 km. No. **7.**—Balloon fell at Winchfield, Hants, distant 40 km., direction 170° (S 10° E.). Mean Temperature Gradient (Ground to 12·7 km.) 0·61° per 100 metres. Sky covered with low clouds, light N.E. wind. Temperature constant at 280° from 0·7 to 1·1 k.m.; at **270·5**° from 3·3 to 3·8 km.; at **265·5**° from 4·4 to 4·6 km.; **266**° at 12·7 km. and **204**° at 13·7 km. Unusual oscillation of temperature shown on both up and down traces above 12·7 km. The isothermal pieces are clearly shown on both traces.

Sunday, 21st November, 1909.

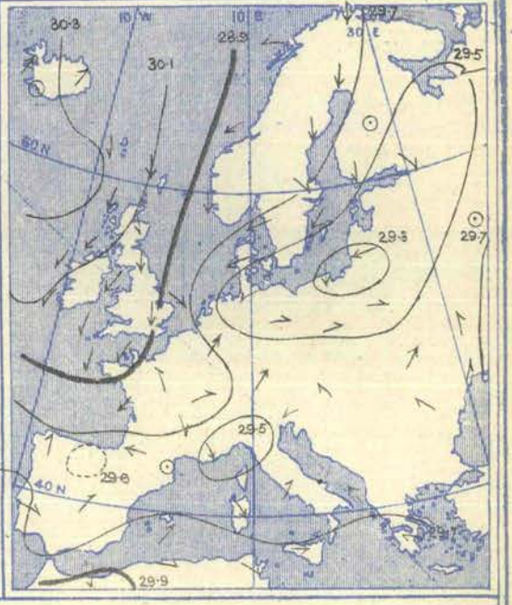
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine over the greater portion of this country and southern Europe, but overcast in most other regions, with rain at a few stations, and snow in some parts of Scandinavia. Some heavy falls of snow later in Germany, and a certain amount of rain or snow over a rather large area on the Continent, and at a few places in these Islands.

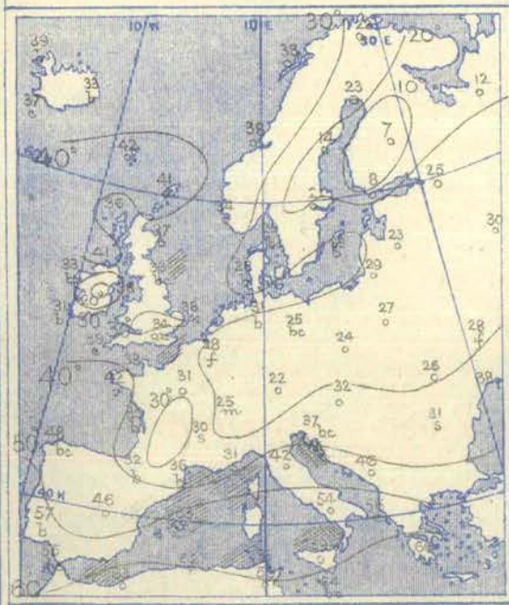
Temperature fallen in most regions. Morning readings ranging from 70° at Algiers, and above 60° at several stations in the far south, to below 40° over our area as a whole, and to 32° in some parts of France, England and Ireland, and in the north and east of Europe. Maxima during day below 45° over a large portion of this country, and below 40° in the central countries and in the east of France. Thermometer rising to about 70° at some stations on the shores of the Mediterranean, and to above that figure in places. Frost continuing all day in Scandinavia and northern Russia.

Wind in morning anticyclonic over these Islands and their vicinity, but mainly cyclonic elsewhere. Scarcely any force beyond a moderate breeze in any part of our area. Increasing to a strong breeze or high wind from North later over the North Sea, and to a strong gale from that quarter on the North German coast. Little other change.

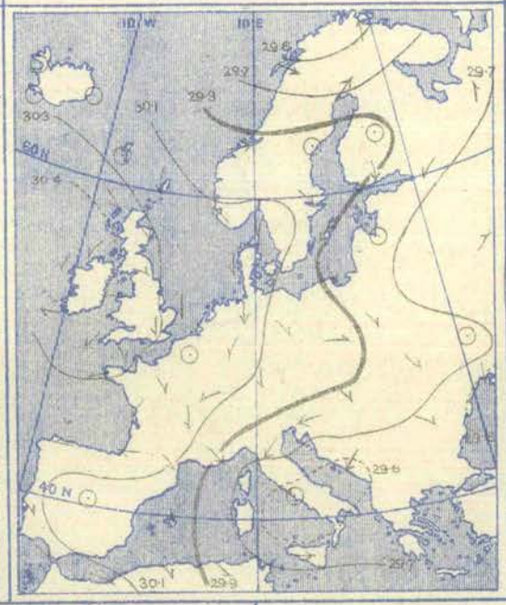
Barometer in morning above 30·3 ins. over Iceland and its neighbourhood, and relatively high in a band extending thence in a south-easterly direction. Low in a large and complex disturbance with two minima over Russia and the Baltic, and relatively low in another depression over the Gulf of Genoa and its vicinity, and also off the west of Portugal. Pressure giving way during day in the United Kingdom and France, and general distribution undergoing some modification.

Monday, 22nd November, 1909.

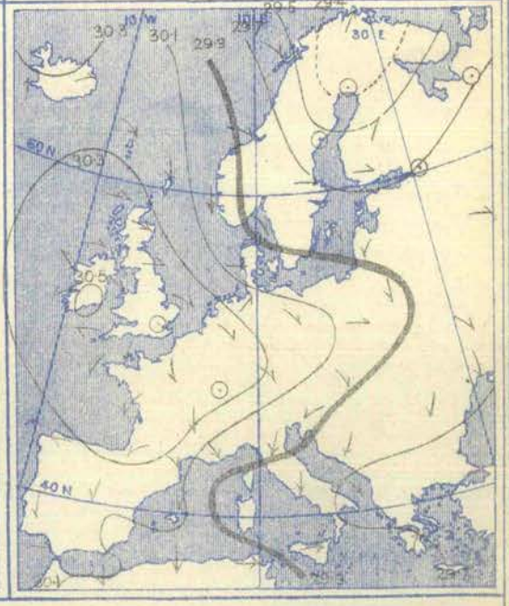
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying a good deal; fair to fine in most parts of the United Kingdom and over a considerable portion of the Continent, but rain or hail showers falling on the east coast of England, and snow over a large area in Germany, the Netherlands, and the north-east of France, as well as at Nice. A little rain or snow later in the east and north-east of these Islands, and larger falls over a large portion of the Continent, and also in Algeria.

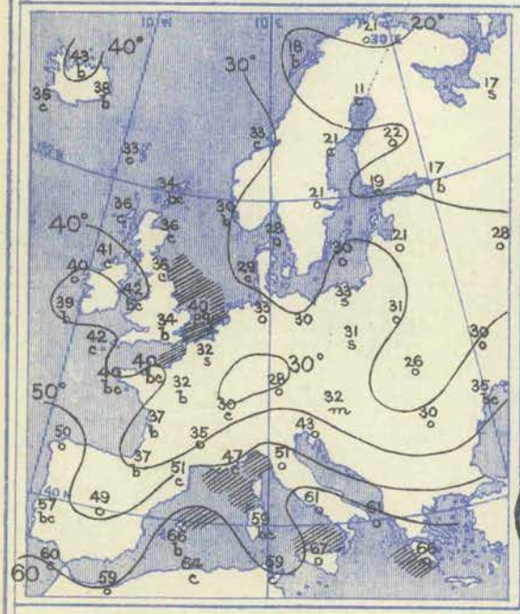
Temperature changed rather irregularly, fallen in most regions. Morning readings ranging from above 65° at a few places in the far south to below 35° over our area generally, and to below 20° in the north-east and north of Europe. Thermometer rising to about 40° during day in most parts of these Islands, but failing to reach that point in the central countries of the Continent, and only touching 45° at Marseilles. Maxima about 70° on the southern shores of the Mediterranean. Frost at night in the extreme south of France; minimum 30° at Nice and Croisette.

Wind in morning mainly anticyclonic and of little force over the United Kingdom and its neighbourhood, but showing two cyclonic circulations over the eastern half of our area. Westerly current strong at many stations on the shores of the Mediterranean, and that from North-West blowing a gale at Wisby. No great change during day; some increase in force on the shores of the Mediterranean.

Barometer in morning above 30·2 ins. in a large high pressure system extending over these Islands from the north-westward; below 29·4 ins. in a very extensive and complex cyclonic system covering much of eastern and southern Europe. Pressure undergoing little change in its general distribution, but increasing over the United Kingdom and Scandinavia, as well as over France and the Bay of Biscay. Gradient growing very steep in the south-east of France.

Tuesday, 23rd November, 1909.

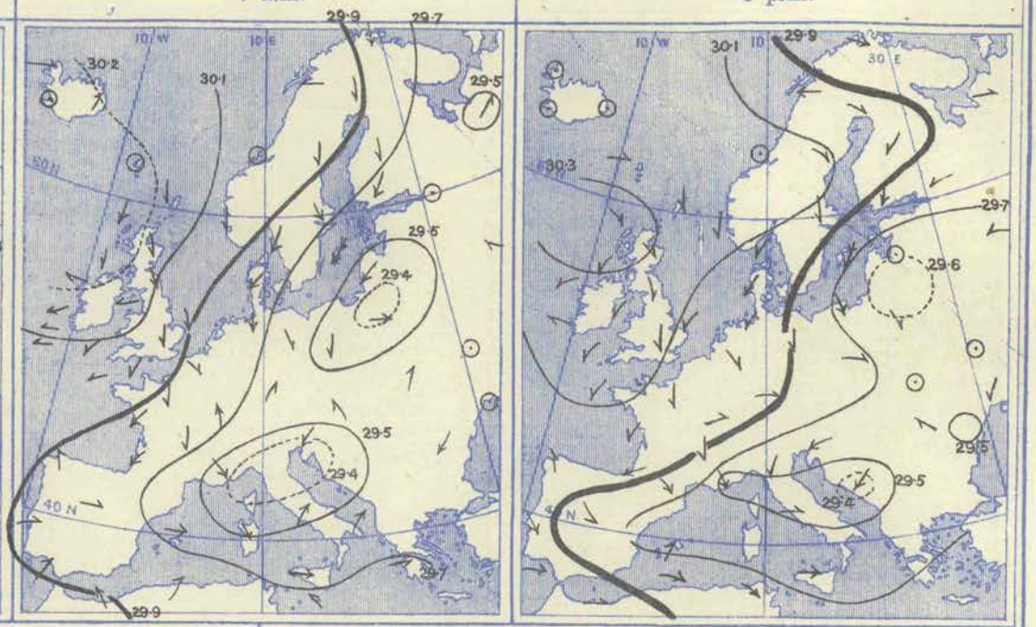
Temperature and Weather. 7 a.m.



Weather in morning fair to fine and bright over the greater portion of our area, but overcast in some regions, with rain at Wick, Odessa, and Algiers, and snow at Hermanstadt, Cape Gris Nez, and in the Netherlands. Slight showers later in the north of this country, and heavier falls on some shores of the Mediterranean.

Temperature fallen generally, risen over Norway and the Baltic. Readings in morning below 10° in Finland, and below 32° over most of the European mainland; above 50° over a large area in the far south, and above 60° in places. Maxima during day below 40° at some of our own stations, and below 32° in various parts of central Europe and the east of France; above 65° at several stations on the southern shores of the Mediterranean, and as high as 70° in Greece. Frost at night over most of this country, and also in parts of Spain and Italy.

Barometer and Wind. 7 a.m. 6 p.m.

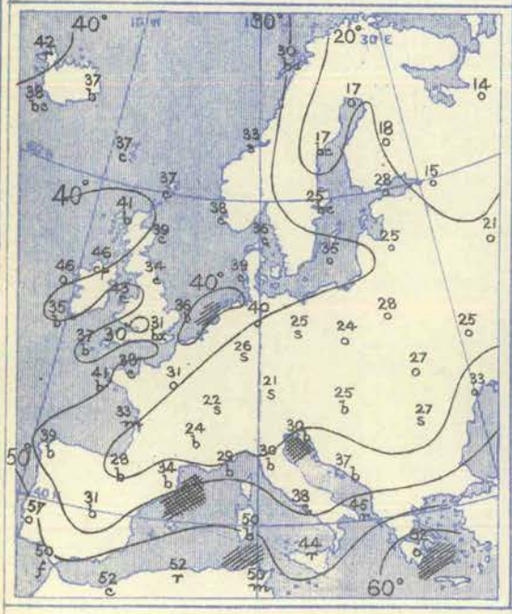


Wind in morning light and anticyclonic over the whole of this country and the surrounding regions; mainly cyclonic elsewhere; moderate or light in force generally, but fresh to strong or high from various directions over the Mediterranean and Adriatic, and moderate to strong from the North-Eastward on the Baltic. No change of importance later in day.

Barometer in morning above 30·4 ins. in the central portion of an anticyclone covering the greater part of Ireland and the adjacent part of the ocean. Below 29·6 ins. in a depression in the far north of the Continent, and also in another system over Italy. Gradient moderate or slight generally, but very steep over the south-east of France. High pressure system increasing in intensity during day. Northern depression becoming deeper and moving eastward.

Wednesday, 24th November, 1909.

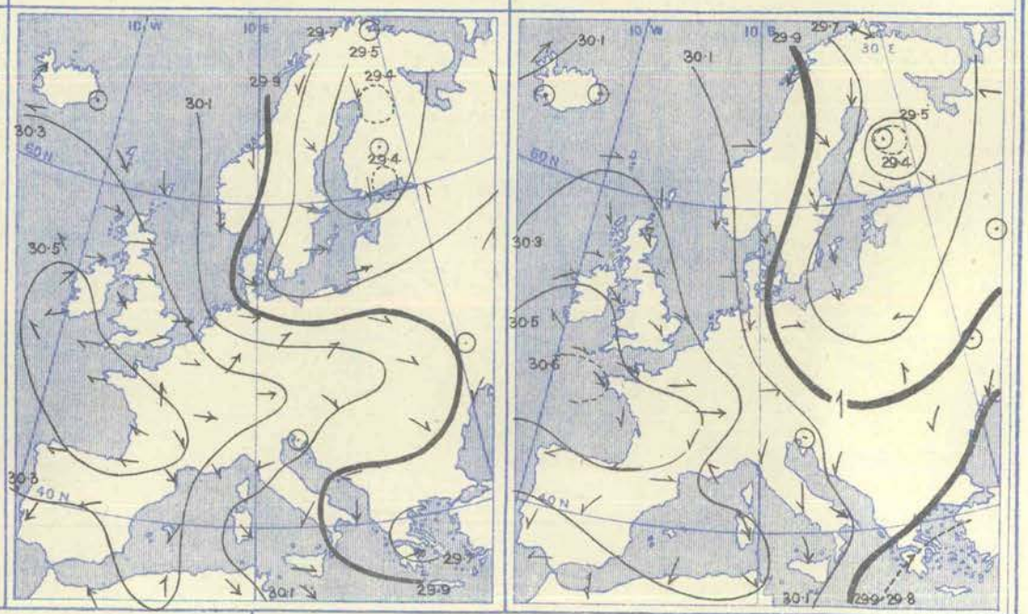
Temperature and Weather. 7 a.m.



Weather in morning fair to fine over the greater part of these Islands and their neighbourhood, but rain falling in the extreme north of Scotland. Sky generally cloudy or overcast on the Continent, with rain in places in the southern regions, and snow at several stations in the central and northern countries. A little rain later in many parts of these Islands, and considerable quantities of snow or rain in Germany and the Netherlands.

Temperature fallen as a whole. Morning readings ranging from below 20° in the extreme north, and below 32° over the greater portion of our area, to between 40° and 50° on most shores of the Mediterranean, to 56° at Malta, 57° at Lisbon, and 62° at Athens. Maxima during day as low as 40° at some of our south-eastern stations, below 32° in Austria and most of Scandinavia and Russia, and below 50° in Italy as far south as Naples. Thermometer rising to 60° and above in the extreme south of our area. Frost at night in many English localities.

Barometer and Wind. 7 a.m. 6 p.m.

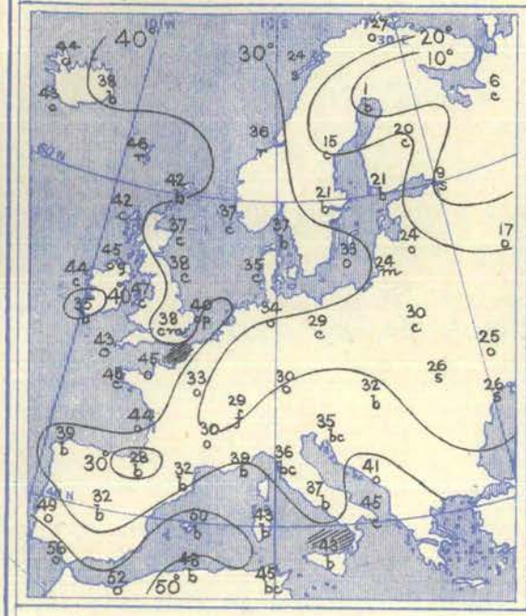


Wind in morning mainly anticyclonic over this country, France, and the Bay of Biscay, cyclonic elsewhere. Strong from South-West or West over Germany and the Baltic, and fresh or strong from various points of the compass on the Mediterranean and Adriatic. No change of importance during day.

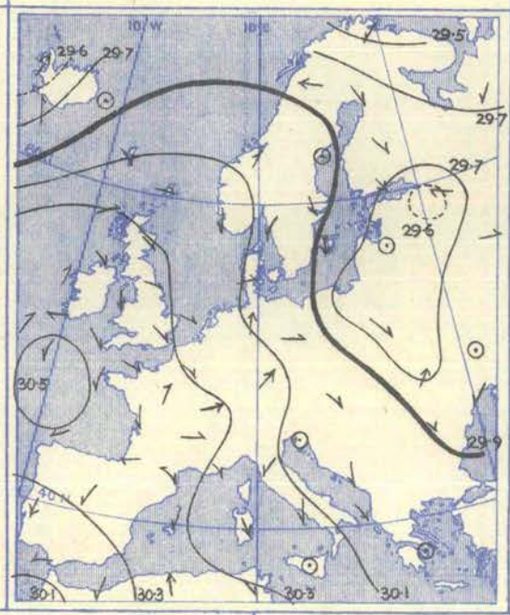
Barometer in morning above 30·5 ins. in a large anticyclone having its maximum over France, the Bay of Biscay, and the south-west of this country. Relatively low in the south-east of Europe, and below 29·5 ins. in a depression over Finland. Scarcely any change occurring later in the general distribution of pressure, but depression in Finland becoming deeper, and a fresh fall of the barometer setting in in Iceland.

Thursday, 25th November, 1909.

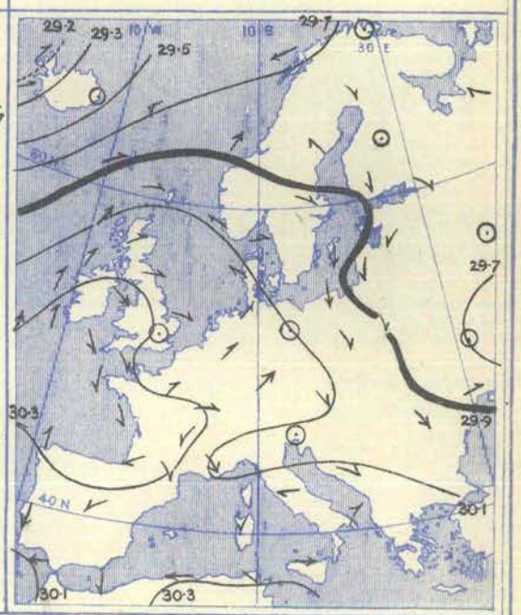
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine over the major portion of our area, but showery on the east coast of England and at Brussels and Christiansund, and snow falling at Bodö, St. Petersburg, and at some places in central Europe. Some rain or snow later in a few places over a large area on the Continent, nearly an inch at Christiansund, and 0·8 in. at Cracow.

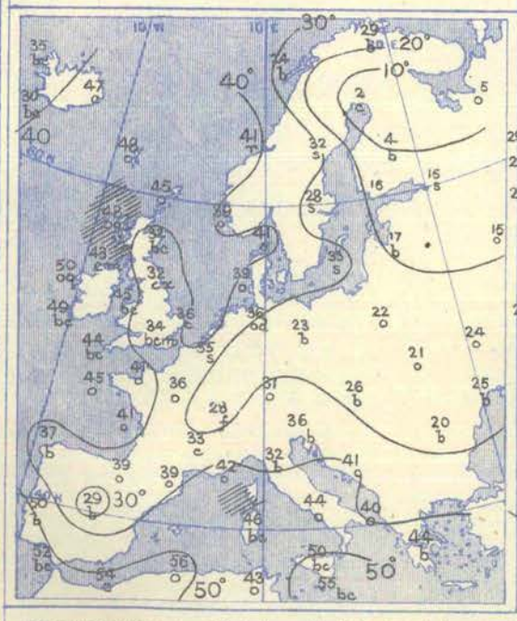
Temperature risen in most regions, fallen in the east and north-east of our area. Morning readings very little above zero in the northern parts of Sweden and Russia, and below 30° over a very large region in the north and east of Europe, and also in the south-west of France and north of Italy. About 50° at some Algerian stations, and 56° at San Fernando. Maxima during day below 45° in some parts of England, below 32° in the east of France and at many places in the central and northern countries. Thermometer remaining below 50° over the greater part of Italy, and only touching 57° at Tunis.

Wind in morning showing a vast anticyclonic circulation in the west of our area, and a large cyclonic movement in the east. Little force generally, but Northerly current fresh to strong or high on the Baltic and North German coast, and a strong North-West wind also blowing at Brindisi and Nicolaieff. A high wind from South-West prevailing in the north-west of Iceland. No change of importance during day.

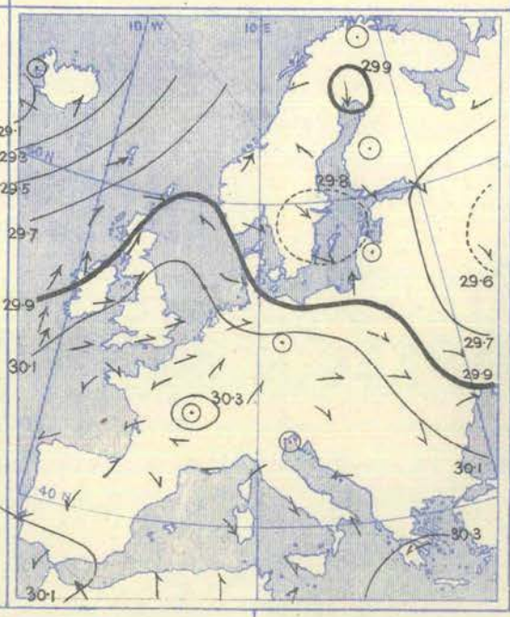
Barometer in morning ranging from above 30·5 ins. off our south-west coasts to about 29·6 ins. in a depression centred near St. Petersburg, and to below 29·6 ins. both in the extreme north and north-west of our area. Anticyclone moving southward and south-eastward during day and decreasing somewhat in intensity, and a large cyclonic system beginning to spread over these Islands from the Atlantic.

Friday, 26th November, 1909.

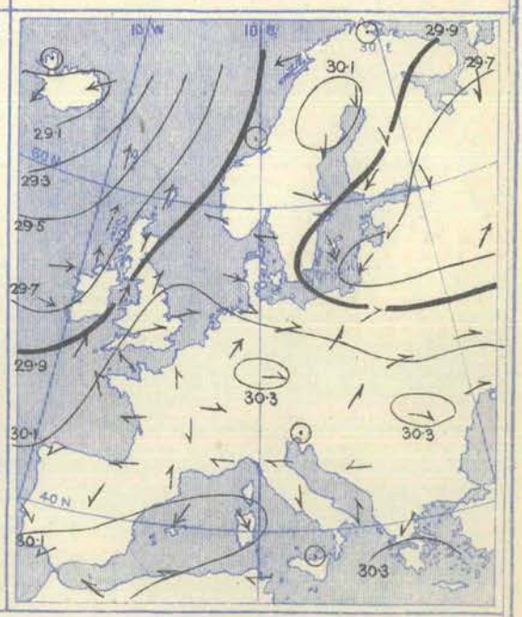
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright at most places in the south of our area, generally very cloudy or overcast elsewhere, with rain or snow at several stations over the Baltic region and also in the Netherlands. Rain later in the west and north-west of these Islands and at Malta, and rain or snow in various parts of central and northern Europe. Amounts not large generally, but about 0·5 in. in the west of Ireland.

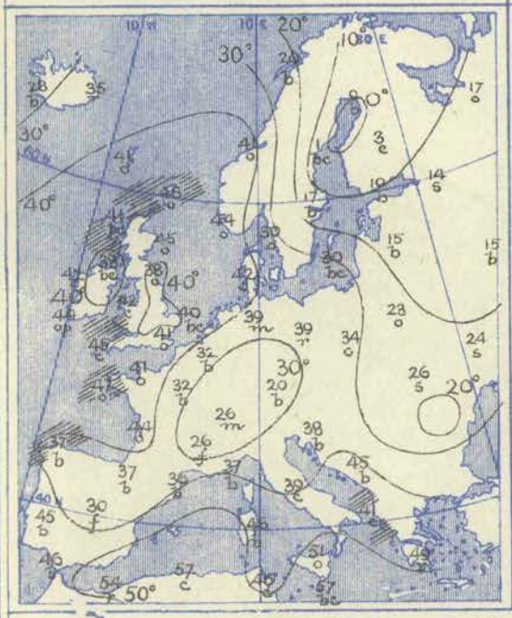
Temperature risen in Ireland, the north of Scotland, and over most of Scandinavia, fallen in many other districts. Morning readings ranging from above 50° at some stations in the extreme south to below 32° generally, and to below 10° over a considerable area in the far north of the Continent. Thermometer rising to about 50° at many places in the west and north of these Islands, and to above 60° over a large area in the far south of Europe, but only touching 40° at Turin, and remaining below 32° at various stations in Austria and northern Europe.

Wind in morning mainly anticyclonic over all the central regions of the Continent and France. Partial or complete cyclonic circulations prevailing elsewhere. Little force generally, but Southerly and South-Westerly current fresh or strong on our own west and north-west coasts. Increasing in force along the west and north-west coasts of these Islands by evening; becoming high at Stornoway and Pembroke. Not much change as a whole, but increasing to a strong breeze or high wind from the Northward over the Baltic.

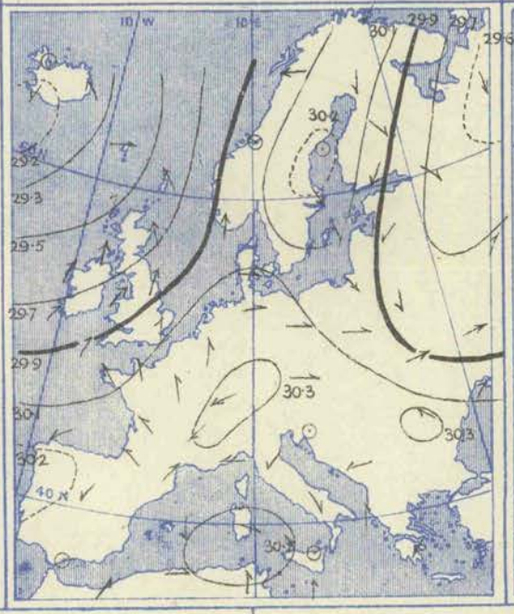
Barometer in morning above 30·2 ins. in an anticyclone covering France and a large portion of central Europe; below 29·7 ins. in a shallow depression over the upper part of the Baltic, and below 29·1 ins. in another system over Iceland and its vicinity. Anticyclone extending eastward to the Black Sea during day, and pressure becoming relatively high over the north of Sweden also. Barometer falling steadily over the United Kingdom and the Bay of Biscay.

Saturday, 27th November, 1909.

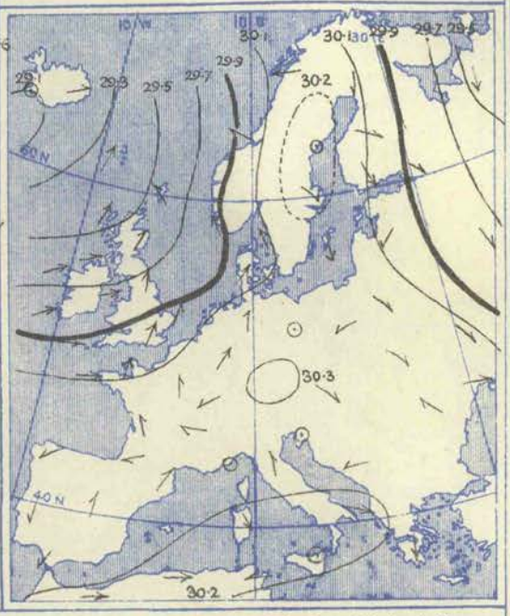
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast over the greater portion of our area, with rain at some of our own stations, and in a few places scattered over the Continent. Fine and bright in most parts of Scandinavia and in several localities in the Mediterranean region and the south of Russia. Rain falling later in almost all parts of these Islands, and thunderstorms occurring at Shrewsbury and Newton Rigg. Some rain also experienced on some shores of the Mediterranean, and snow over a large portion of northern Europe.

Temperature changed rather irregularly, but fallen in most regions. Morning readings ranging from above 50° at a few places on the southern shores of the Mediterranean and at Malta, Palermo, and Palma to below 32° in central and eastern France and South Germany, and to below 20° over a large area in eastern and northern Europe: lowest values about zero in the north of Sweden. Maxima during day about 50° in the west of this country and above 60° at a few places in the south of our area. Frost continuing throughout the day in various parts of central Europe, and also in the north.

Wind in morning moderate to fresh from the Southward over these Islands and their neighbourhood, and calm or Easterly in Iceland. Light and mainly anticyclonic over central Europe and Scandinavia, and cyclonic in the north-east of our area. No general change later; veering somewhat in Ireland, and increasing in force from the Southward in England.

Barometer in morning above 30·2 ins. over almost the whole of central and south-eastern Europe, and also in central Sweden; below 29·6 ins. in a depression over northern Russia, and below 29·2 ins. in a very large system centred in the vicinity of Iceland. Relatively low in a shallow depression over the Mediterranean. Scarcely any change taking place in the general distribution of pressure during day; decreasing slowly over Great Britain, but increasing a little in Ireland and the west of France.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
	1909.												
1	Nov. 22nd, 4.45 p.m. to 5.50 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	273° 95% 360°, 5	272·6° 95% 349°, 8	272° 95% 343°, 10	269° 95% 323°, 17				268° 100% 344°, 16	1,280	Fair to overcast. Clouds, Cu. and Cu.-Ni. Light to gentle breezes.
2	Nov. 23rd, 3.30 p.m. to 3.35 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	272·8° 84% 336°, 2	—° —% 245°, 6	—° —% 244°, 8					—° —% 235°, 13	920	Fair to overcast. Clouds, Cu. Light air to light breeze. Pilot balloon.
3	Nov. 25th, 3.15 p.m to 3.22 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	275·3° 91% 326°, 2	—° —% 361°, 7	—° —% 359°, 7	—° —% 345°, 14				—° —% 346°, 14	1,330	Fair to fine. Clouds, Cu. Light breeze. Pilot balloon.
4	Nov. 26th, 4.0 p.m. to 6.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	276° 93% 190°, 4	275·3° 94% 191°, 8	275° 95% 192°, 10	272° 90% 214°, 11	269·7° 90% 222°, 16			268° 92% 220°, 16·7	1,610	Fair to overcast. Some showers. Light to gentle breezes. Clouds, Cu., Ni., Cu.-Ni., and St.
5	Nov. 22nd, 10.10 a.m. to 10.54 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	275·3° 97% —°, 10	275° 99% —°, 16	274·8° 100% —°, 20	272·6° 100% —°, 23				271° 100% —°, 23	1,210	Overcast and dull. Some rain. Clouds, Ni. Fresh to strong breezes. Very gusty.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5
No. of Kites	1	1	1	1	1
Area of Surface (sq. metres) ..	7·6	—	—	7·6	7·6
Capacity of Balloon (cub. metres)	—	·025	·025	—	—
Length of Wire (metres)	—	—	—	—	—

63, Victoria Street, London, S.W. *December 1st, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* } No. 48. FORTY-EIGHTH WEEK, SUNDAY NOVEMBER 28TH TO SATURDAY DECEMBER 4TH, 1909. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather.—During nearly the whole of this period the conditions were rough and very unsettled, rain falling daily over a large portion of the Kingdom, while towards the end of the week many localities experienced hail, sleet, and snow. Thunder and lightning occurred in several parts of the country generally either early or late in the week.

Temperature was below the average in Scotland, the north-east of England, and the north of Ireland, the deficit being as much as 3°·1 in Scotland N., elsewhere it was above it, the greatest departure being 2°·7 and 2°·5 respectively in England E. and S.E. The highest of the maxima were generally recorded on November 28th or 29th, and ranged from 56° or 55° in many parts of the Kingdom to 51° in Scotland N. The lowest of the minima, which were registered on December 4th, varied from 20° in Scotland N., 22° in Scotland E., and 24° in Scotland W. and England N.W., to 34° in England S.E., and to 39° in the English Channel. The lowest grass readings reported were 17° at West Linton, 18° at Crathes and Glasgow, and 20° at Aspatria and Buxton. At several other stations the readings were below 25°.

Mean Temperature of the Sea.—At all stations except Aberdeen and Seafield the water was colder than during the corresponding week of last year, the greatest difference being nearly 5° at Kirkwall. The means for the week ranged from 49°·8 at Seafield and about 49° on the south-west coast of England and at Port Erin, to below 42° at most places on the north-east coasts of Great Britain.

Rainfall was largely in excess of the normal. In several districts the fall was more than twice as much as the average, and in the English Channel more than three times as much. Falls of an inch or more in one day were experienced over a wide area, generally either on Sunday, Monday, or Thursday. In some Scottish localities there was more than an inch both on Sunday and Monday, the largest fall in any one day being 2·68 ins. at Fort William on Sunday. The highest total for the week was 4·25 ins. at Fort William and Llangammarch Wells; at Buxton the total was 4·21 ins., and at Bettws-y-Coed 4·19 inches.

Bright Sunshine just equalled the normal in Scotland E. and W., and also in England, S.E., and slightly exceeded it in Scotland N., and Ireland S., but elsewhere it was deficient. The percentage of the possible duration was 24 in Ireland S. and 20 in England S.E., but only 10 in the Midland Counties and the English Channel, and 9 in England N.W.

Barometer and Wind.—The distribution of pressure was favourable for the passage of cyclonic disturbances from the westward over the United Kingdom and between Scotland and Iceland. During the early days of the week these systems had their centres to the southward of Iceland or over the north of Scotland, and as they were sufficiently deep to produce a considerable gradient the South-Westerly and Westerly winds over these Islands were generally fresh to strong or high, and at times reached gale force in the west and north-west. The chief disturbance of the week appeared over the north-west of Ireland on Thursday evening and afterwards travelled quickly eastward and increased in intensity, the readings of the barometer at 7 a.m. on Friday being as low as 28·03 ins. at Spurn Head, and 28·09 ins. at North Shields. During the progress of this disturbance the wind increased rapidly from S.W. and W., and on Thursday night it blew a strong to whole gale over Ireland, England, and the adjacent seas and channels. The gales subsided during Friday, but on Saturday a secondary disturbance caused further gales and high winds from West in the Channel, see p. 388.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 364.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Moderate	Moderate	Unusual	Unusual	Moderate	Deficient	Moderate	Moderate	Deficient	Moderate	Moderate
	Rainfall ...	Heavy	Heavy	Heavy	Very heavy	Heavy	Very heavy	Heavy	Very heavy	Very heavy	Very heavy	Heavy	Very heavy
	Sunshine ...	Moderate	Moderate	Scanty	Moderate	Scanty	Moderate	Moderate	Scanty	Scanty	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 13 weeks from Sept. 5th 1909.	Warmth ...	2 * 6	3 * 5	2 * 6	4 * 5	4 * 5	3 * 6	3 * 7	3 * 6	3 * 6	4 * 7	4 * 6	3 * 5
	Rainfall ...	5 * 7	5 * 4	1 * 4	3 * 1	3 * 4	5 * 4	4 * 5	4 * 6	4 * 5	4 * 7	5 * 8	5 * 5
	Sunshine ...	5 * 2	5 * 3	3 * 5	2 * 6	2 * 5	3 * 2	5 * 5	5 * 2	4 * 4	5 * 2	5 * 2	4 * 5

PAST SEASONS.

AUTUMN, 1908. Aug. 30th–Nov. 28th. 13 weeks.	Warmth ...	10 * 2	8 * 3	10 * 1	7 * 2	8 * 2	6 * 2	10 * 2	7 * 2	6 * 2	10 * 2	9 * 2	10 * 2
	Rainfall ...	5 * 6	5 * 5	3 * 6	2 * 5	2 * 5	1 * 7	5 * 5	2 * 5	2 * 5	3 * 6	4 * 4	2 * 6
	Sunshine ...	3 * 3	4 * 6	2 * 4	4 * 3	3 * 4	8 * 1	1 * 7	6 * 4	4 * 3	2 * 5	1 * 6	7 * 2
WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4

8244 450 Wy. & S. Ltd. 12—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-EIGHTH WEEK—November 28th to December 4th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	51	20	41·8	32·3	37·2	− 3·1	0	− 12	34	+ 9	6	0	2·09	+0·68	7	+ 1	15	+ 2
Eastern																		
1. SCOTLAND, EAST	56	22	41·8	31·5	36·9	− 2·4	0	− 11	36	+ 5	5	+ 2	1·18	+0·49	9	0	18	0
2. ENGLAND, N.E.	53	28	44·4	35·7	40·2	− 0·9	7	− 7	25	+ 4	5	0	1·16	+0·67	6	− 5	11	− 9
3. ENGLAND, EAST	55	32	47·7	38·7	43·4	+ 2·7	24	+ 9	9	− 16	6	+ 3	1·45	+0·95	10	− 1	18	− 1
4. MIDLAND COUNTIES	56	30	47·1	37·4	42·5	+ 2·1	23	+ 8	13	− 13	7	+ 3	1·50	+0·97	6	− 4	10	− 8
5. ENGLAND, S.E.	54	34	49·0	40·4	44·9	+ 2·5	27	+ 6	4	− 14	6	+ 3	1·72	+1·08	12	0	20	0
Western																		
6. SCOTLAND, WEST	52	24	43·9	35·7	40·0	− 2·2	5	− 12	25	+ 8	6	+ 2	2·02	+0·77	9	0	16	0
7. ENGLAND, N.W.	54	24	46·5	37·9	42·4	+ 0·1	20	+ 2	11	− 4	7	+ 3	2·27	+1·41	5	− 4	9	− 8
8. ENGLAND, S.W.	54	32	49·0	41·6	45·4	+ 1·7	25	0	1	− 13	7	+ 3	2·41	+1·41	7	− 5	13	− 9
9. IRELAND, NORTH	55	25	46·4	36·5	41·6	− 0·7	12	− 6	23	+ 7	7	+ 2	1·88	+1·01	9	− 1	17	− 2
10. IRELAND, SOUTH	56	25	48·7	38·9	44·0	+ 0·2	27	+ 1	9	− 4	6	+ 1	1·58	+0·66	13	+ 1	24	+ 2
11. ENGLISH CHANNEL	55	39	51·9	44·9	48·5	+ 1·2	46	+ 6	0	− 2	7	+ 2	2·92	+2·02	6	− 8	10	−14

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 13 Weeks, September 5th to December 4th, 1909.

0. SCOTLAND, NORTH	68	12	*	*	*	*	444	− 80	196	+ 79	64	− 2	14·91	−0·69	251	+ 44	27	+ 5
Eastern																		
1. SCOTLAND, EAST	70	3	*	*	*	*	453	−100	243	+ 91	55	+ 2	8·74	+0·18	270	+ 19	29	+ 2
2. ENGLAND, N.E...	70	18	*	*	*	*	614	− 42	145	+ 60	53	+ 3	6·29	−1·00	251	− 27	27	− 3
3. ENGLAND, EAST	74	24	*	*	*	*	751	+ 3	101	+ 1	59	+12	7·96	+1·09	273	− 38	29	− 4
4. MIDLAND COUNTIES.. ..	71	20	*	*	*	*	657	− 27	160	+ 42	57	+10	7·66	+0·30	242	− 29	25	− 3
5. ENGLAND, S.E.	71	22	*	*	*	*	803	− 45	106	+ 33	54	+ 8	11·68	+3·19	310	− 3	32	0
Western																		
6. SCOTLAND, WEST	70	12	*	*	*	*	570	− 61	200	+118	50	− 5	13·29	−1·22	266	+ 14	28	+ 2
7. ENGLAND, N.W...	69	20	*	*	*	*	638	− 70	132	+ 70	54	+ 2	11·71	+1·15	274	+ 17	29	+ 2
8. ENGLAND, S.W...	72	15	*	*	*	*	759	− 62	90	+ 39	57	+ 3	12·59	+0·66	321	+ 19	34	+ 2
9. IRELAND, NORTH	68	13	*	*	*	*	624	− 38	157	+ 86	59	− 1	11·21	+0·20	294	+ 39	31	+ 4
10. IRELAND, SOUTH	72	16	*	*	*	*	731	− 44	132	+ 72	62	+ 8	10·34	−0·56	338	+ 41	35	+ 4
11. ENGLISH CHANNEL	74	30	*	*	*	*	1046	− 31	22	+ 18	58	− 1	11·85	+1·37	348	− 21	36	− 2

THE YEAR.—Aggregates, &c., for the Period of 48 Weeks, January 3rd to December 4th, 1909.

0. SCOTLAND, NORTH	72	12	*	*	*	*	1872	−206	731	+ 57	228	+ 2	40·47	−6·54	1132	+ 40	27	+ 1
Eastern																		
1. SCOTLAND, EAST	80	1	*	*	*	*	2048	+275	916	+144	192	+ 6	30·20	+2·07	1289	− 14	31	0
2. ENGLAND, N.E.	85	14	*	*	*	*	2537	− 69	725	+165	175	+ 5	24·29	+1·54	1366	− 47	32	− 1
3. ENGLAND, EAST	85	12	*	*	*	*	2848	−160	655	+ 34	182	+19	23·25	+1·47	1572	+ 34	38	+ 1
4. MIDLAND COUNTIES.. ..	86	8	*	*	*	*	2752	−168	802	+151	172	+10	24·66	+0·54	1411	+ 41	34	+ 1
5. ENGLAND, S.E...	86	0	*	*	*	*	2984	−283	582	+134	167	+11	29·05	+4·45	1692	+135	41	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2351	−183	645	+138	184	−11	42·29	−1·07	1393	+ 60	33	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2562	−213	598	+150	183	+ 3	33·28	+1·51	1475	+121	35	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2871	−242	480	+128	181	+ 2	32·93	−1·65	1653	+134	40	+ 3
9. IRELAND, NORTH	78	13	*	*	*	*	2541	−108	472	+ 56	214	+ 2	32·96	−1·91	1258	+ 12	30	0
10. IRELAND, SOUTH	81	15	*	*	*	*	2974	− 87	397	+ 78	201	+12	31·37	−4·71	1463	+ 59	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	3606	− 57	173	+ 60	169	−23	27·72	−1·44	1935	+ 90	46	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **R** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature (In Degrees Fahrenheit): Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week: Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees): Above 42°	Below 42°	Rainfall: No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine: Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. — a, Islands.	p *Balta Sound* S	*45*	*28th, 29th*	*32*	*1st*	*41·9*	*34·9*	*38·5*	—	*0*	*25*	*7*	*1·09*	—	*15·5*	—	*36*	—	*Balta Sound.*
	a Sumburgh Head ..	51	28th	34	4th	43·4	35·3	39·5	− 2·4	4	25	7	1·02	+ 0·05	10·0	+ 3·7	21	+ 8	Deerness.
	a Stornoway ..	51	28th	29	3rd	41·9	33·0	37·6	− 4·2	0	31	6	1·45	+ 0·10	8·5	+ 0·3	18	+ 1	Stornoway.
	a *Castlebay, Barra Isd.*	*52*	*28th*	*36*	*3rd, 4th*	*44·7*	*38·1*	*41·5*	*− 2·2*	*8*	*16*	*7*	*1·15*	—	*6·9*	—	*14*	—	*Castlebay.*
b, Mainland.	a Wick ..	48	28th	29	2nd	40·9	32·0	36·6	− 4·4	0	38	6	0·98	+ 0·33	*	*	*	*	* *
	p Strathpeffer ..	48	28th	20	3rd	41·5	30·7	36·3	− 3·5	0	40	6	0·83	+ 0·14	9·4	+ 2·1	19	+ 4	Strathpeffer.
	p Glencarron .. 𝔖	51	28th	24	2nd	41·0	30·4	35·9	− 4·0	0	43	6	3·46	+ 1·29	*	*	*	*	* *
	p Fort Augustus 𝔖	50	28th	26	4th	41·2	31·6	36·6	− 4·0	0	38	6	2·62	+ 1·55	1·5	− 0·8	3	− 2	Fort Augustus.
	p Fort William 𝔖	51	28th	27	4th	42·4	33·4	38·1	− 3·9	1	32	5	4·25	+ 2·25	*	*	*	*	* *
1. SCOTLAND E. ..	p *Gordon Castle* 𝔖	51	28th	25	3rd	43·7	30·9	37·6	− 3·3	5	42	5	1·21	+ 0·66	*11·8*	—	*24*	—	*Gordon Castle.*
	a Nairn ..	50	28th	23	3rd	41·1	29·9	35·7	− 4·3	0	44	4	0·52	+ 0·05	13·7	—	28	—	Nairn.
	a Aberdeen ..	49	28th	28	3rd	41·6	32·6	37·3	− 3·7	0	33	3	0·85	+ 0·18	6·9	− 4·1	14	− 8	Aberdeen.
	a Balmoral .. 𝔖	46	28th	24	3rd	40·6	27·7	34·4	− 2·8	0	53	2	0·58	− 0·24	4·3	—	9	—	Crathes S.
	p Crieff .. 𝔖	49	28th, 29th	28	4th	42·0	31·2	36·8	− 3·3	0	36	5	1·20	+ 0·18	8·7	—	17	—	Balruddery
	a Leith ..	56	28th	34	3rd, 4th	44·1	36·4	40·4	− 1·7	6	22	6	1·46	+ 1·01	10·5	+ 3·4	21	+ 7	Edinburgh.
	a West Linton .. S	47	28th	22	4th	37·4	30·3	34·0	− 5·0	0	56	6	1·68	—	*7·1*	—	*14*	—	*West Linton.*
	p Marchmont .. 𝔖	47	28th, 1st	26	4th	44·1	32·7	38·6	− 1·0	6	35	5	1·94	+ 1·29	9·0	− 0·5	18	− 1	Marchmont.
2. ENGLAND, N.E. — a, North.	a Alnwick Castle ..	51	28th	30	4th	42·5	33·8	38·3	− 2·9	1	30	5	1·60	+ 0·89	9·7	—	19	—	Cockle Park.
	a Shields ..	51	28th	33	28, 2, 3, 4	44·0	34·7	39·5	− 2·6	6	28	4	1·10	+ 0·64	*4·1*	*− 2·2*	*8*	*− 4*	*Newcastle.*
	p Durham ..	51	29th	30	4th	43·0	34·6	39·0	− 1·1	3	28	4	1·03	+ 0·54	8·3	− 2·3	16	− 4	Durham.
	p Rounton .. 𝔐	50	28th, 29th	28	4th	42·8	33·5	38·3	− 2·1	2	31	5	1·20	+ 0·78	*	*	*	*	* *
	p Scarborough .. M	51	28th	33	4th	45·7	37·1	41·6	− 0·8	10	21	5	1·32	+ 0·78	2·0	—	4	—	Scarborough.
	p York ..	51	28th, 29th	28	4th	45·4	35·9	40·8	− 0·7	10	25	6	1·26	+ 0·81	1·1	− 6·1	2	− 11	York.
b, South.	a Spurn Head ..	50	29th	34	4th	45·3	38·3	41·9	− 1·0	9	16	3	0·77	+ 0·36	*	*	*	*	* *
	a Lincoln ..	53	29th	33	4th	46·1	36·9	41·7	+ 0·7	11	22	5	1·08	+ 0·66	6·9	—	13	—	Skegness.
	a Fulbeck ..	52	29th, 2nd	33	4th	44·9	36·2	40·7	+ 0·5	8	23	5	1·06	+ 0·63	7·3	—	13	—	Rauceby.
															9·8	—	*18*	—	*Lowestoft.*
3. ENGLAND, E. — a, North.	p Cromer ..	52	29th, 3rd	33	4th	47·1	37·9	42·7	+ 2·1	22	11	7	1·62	—	8·7	—	16	—	Cromer.
	p Hillington .. 𝔐	52	29th	32	30th	47·1	37·3	42·4	+ 1·9	23	13	5	1·72	+ 1·17	6·4	− 4·4	11	− 8	Hillington.
	a Yarmouth ..	52	29th	35	4th	46·0	38·3	42·3	+ 0·2	18	10	5	1·40	+ 0·90	11·7	—	21	—	Yarmouth.
	a Norwich ..	52	28, 29, 2nd	33	4th	47·0	38·7	43·0	+ 1·5	21	9	6	1·39	—	*	*	*	*	* *
	p Geldeston ..	53	29th, 3rd	34	4th	48·5	38·9	43·9	+ 1·7	26	9	7	1·52	+ 1·02	8·6	− 3·9	15	− 7	Geldeston.
b, South.	p Cambridge ..	54	3rd	33	4th	49·2	38·9	44·3	+ 2·9	29	9	5	1·26	+ 0·86	12·6	+ 1·3	23	+ 12	Cambridge.
	a *Felixstowe* ..	*50*	*2nd*	*37*	*1st*	*46·9*	*39·3*	*43·3*	*+ 0·5*	*20*	*8*	*6*	*1·22*	—	*13·3*	—	*24*	—	*Felixstowe.*
	a Clacton-on-Sea ..	50	2nd	38	1, 3, 4th	46·7	38·9	43·0	+ 0·4	20	9	5	1·05	—	11·8	—	21	—	Clacton.
	a Rothamsted ..	53	2nd	33	4th	47·7	37·6	42·9	+ 1·7	25	12	7	1·58	+ 0·98	13·3	+ 1·8	23	+ 3	Rothamsted.
	a *Shoeburyness* ..	*51*	*28, 29, 2nd*	*38*	*28th, 4th*	*48·1*	*40·0*	*44·3*	*+ 1·1*	*24*	*6*	*5*	*1·08*	*+ 0·69*	*14·0*	—	*25*	—	*Southend.*
	p Tottenham ..	55	2nd	36	4th	49·8	41·6	45·9	+ 3·4	29	1	5	1·48	—	8·6	—	15	—	Tottenham.
4. MIDLAND COUNTIES. — a, East.	a Harrogate ..	49	29th	31	4th	42·6	34·9	35·9	− 1·5	2	26	7	1·74	+ 1·14	2·4	—	4	—	Harrogate.
	a Bawtry ..	52	29th	30	3rd	49·4	35·6	42·8	+ 2·2	32	18	6	1·08	+ 0·64	2·8	− 6·0	5	− 11	Worksop.
	p *Buxton* .. M	*48*	*28, 29, 2nd*	*28*	*4th*	*44·0*	*34·5*	*39·4*	*+ 0·4*	*6*	*29*	*7*	*4·21*	*+ 3·11*	*4·2*	—	*8*	—	*Buxton.*
	a Nottingham ..	52	29th, 2nd	33	4th	46·1	37·6	42·0	+ 0·8	11	12	7	1·40	+ 0·95	4·1	—	8	—	Nottingham.
	p Birmingham, Edgbsn	52	2nd	32	4th	47·3	37·1	42·4	+ 1·4	23	14	7	1·53	+ 0·99	7·0	—	13	—	Birmingham.
	a Raunds .. 𝔐	53	29th, 2nd	32	4th	47·3	36·7	42·2	+ 1·3	24	15	6	1·75	—	*	*	*	*	* *
	a Oxford ..	53	29th, 2nd	35	4th	48·4	38·9	43·8	+ 2·1	26	9	6	1·23	+ 0·71	11·4	+ 0·4	20	+ 1	Oxford.
b, West.	a Cheadle .. 𝔐	48	28th, 29th	31	4th	42·3	35·8	39·2	− 1·0	1	23	7	1·97	+ 1·32	3·5	—	6	—	Sheffield.
	p Shrewsbury ..	53	29, 2, 3rd	24	4th	49·7	38·1	44·1	+ 1·4	31	11	7	1·02	—	*	*	*	*	* *
	a Hereford .. 𝔐	54	2nd	36	4th	47·7	39·8	43·9	+ 2·3	23	6	7	1·06	+ 0·51	*	*	*	*	* *
	a Cirencester ..	56	2nd	32	4th	47·0	36·3	41·9	+ 1·5	14	25	7	1·60	+ 0·96	3·8	− 7·2	7	− 13	Cirencester.
	a Bath ..	54	29th, 2nd	37	4th	50·3	41·1	45·9	+ 3·4	31	3	7	2·17	+ 1·48	9·5	—	17	—	Bath.
															12·9	—	*23*	—	*Ramsgate.*
5. ENGLAND, S.E. ..	p Kew ..	53	3rd	35	4th	49·8	40·2	45·2	+ 2·8	30	5	6	1·30	+ 0·81	12·6	+ 3·0	22	+ 5	Kew.
	a Marlborough ..	52	2nd	34	3rd, 4th	47·6	37·9	42·9	+ 2·1	24	11	4	1·67	+ 0·97	7·5	− 1·5	13	− 3	Marlborough.
	a Margate ..	53	2nd	37	4th	48·8	40·4	44·8	+ 1·3	26	4	6	1·15	+ 0·65	10·7	− 1·4	19	− 2	Margate.
	a Wisley, Surrey ..	53	2nd	37	4th	48·8	40·1	44·6	+ 1·7	26	5	7	1·24	—	13·7	—	24	—	Wisley.
	a Swarraton .. 𝔐	52	28th, 2nd	34	4th	48·1	39·3	43·9	+ 2·4	25	8	5	1·43	+ 0·71	14·4	—	25	—	Worthing.
	a Tunbridge Wells 𝔐	51	28th, 2nd	35	4th	47·5	38·5	43·2	+ 1·1	23	10	6	2·17	+ 1·43	12·6	− 0·2	22	0	Tunbridge Wells.
	a Dungeness ..	51	29th, 2nd	39	28th, 3rd	49·0	41·9	45·6	+ 1·3	26	0	7	2·54	+ 1·99	8·8	—	15	—	Littlestone.
	p Hastings ..	50	28, 29, 30, 2, 3	37	4th	49·1	41·2	45·3	+ 1·3	26	2	7	2·22	+ 1·53	*9·8*	*− 4·6*	*17*	*− 8*	*Hastings.*
	p Southampton ..	54	28th	35	4th	51·1	40·8	46·2	+ 2·5	34	3	7	1·38	+ 0·68	13·8	+ 1·4	24	+ 2	Southampton.
	a Ventnor ..	53	28th	40	4th	50·2	43·9	47·2	+ 0·8	36	0	7	2·09	+ 1·35	11·7	− 1·3	20	− 2	Ventnor.
															9·5	− 3·6	16	− 6	Eastbourne.
LONDON ..	a *Westminster* ..	*55*	*2nd*	*38*	*4th*	*50·0*	*40·9*	*45·6*	*+ 3·0*	*30*	*3*	*7*	*1·30*	*+ 0·80*	*10·9*	*+ 6·6*	*19*	*+ 12*	*Westminster.*
	a *Greenwich* ..	*53*	*28, 29, 2nd*	*36*	*4th*	*48·9*	*40·5*	*44·9*	*+ 2·3*	*27*	*4*	*5*	*1·37*	*+ 0·87*	*13·2*	*+ 4·2*	*23*	*+ 7*	*Greenwich.*
6. — a, SCOTLAND. W. ..	a Laudale ..	52	28th	31	3rd, 4th	42·1	36·2	39·2	− 3·9	0	21	4	3·33	+ 1·30	*	*	*	*	* *
	a Poltalloch .. 𝔖	50	28th	26	4th	45·6	33·7	38·9	− 3·2	4	32	7	2·71	+ 1·45	*	*	*	*	* *
	p Glasgow ..	50	28th, 29th	30	4th	43·0	35·4	39·4	− 2·3	3	25	5	2·11	+ 1·24	6·2	+ 2·2	12	+ 4	Glasgow.
	p Rothesay .. 𝔖	51	28th, 29th	30	4th	44·6	35·4	40·7	− 1·9	7	23	5	2·03	+ 0·86	*	*	*	*	* *
	a Kilmarnock ..	51	28th	24	4th	43·0	33·7	28·5	− 3·2	3	31	5	1·97	—	*2·3*	—	*4*	—	*Kilmarnock.*
	a Colmonell .. 𝔖	51	28th	31	4th	44·6	37·1	41·0	− 0·9	7	20	6	1·53	+ 0·30	*	*	*	*	* *
	p Dumfries .. 𝔖	50	29th, 30th	28	4th	44·3	35·7	40·2	− 1·2	6	25	6	1·45	+ 0·55	*8·5*	—	*16*	—	*Dumfries.*
	p Cally, Gatehouse 𝔖	49	28th, 29th	29	4th	43·5	34·9	39·4	− 1·9	4	27	6	1·20	− 0·04	*	*	*	*	* *
b, ISLE OF MAN ..	p Douglas ..	50	28th, 29th	31	4th	46·4	37·9	42·3	− 1·8	19	11	6	1·89	+ 0·79	10·9	− 1·0	20	− 2	Douglas.
															4·5	—	8	—	Hoylake.
7. — a, ENGLAND, N.W. ...	p Aspatria ..	49	28th, 29th	26	4th	43·9	34·8	39·5	− 1·7	5	28	6	1·74	+ 0·78	6·4	—	12	—	Aspatria.
	p Newton Rigg ..	49	28th, 29th	24	4th	43·0	33·1	38·3	− 1·5	3	34	7	1·90	+ 1·04	6·0	− 3·6	11	− 7	Newton Rigg.
	p Stonyhurst ..	50	29th	29	4th	44·6	36·3	40·6	− 0·9	7	23	7	3·17	+ 2·14	3·0	− 5·1	6	− 9	Stonyhurst.
	p Blackpool .. M	51	29th	32	4th	46·3	38·2	42·4	− 0·2	19	11	6	2·35	+ 1·59	6·2	− 2·1	12	− 4	Blackpool.
	p M nch'ster, Prestwich	50	29th	31	4th	45·7	36·2	41·1	− 0·5	10	24	7	2·94	+ 2·15	*3·6*	*− 1·5*	*7*	*− 3*	*Prestwich.*
	a Liverpool (Bidston)	53	28th	34	4th	47·4	39·6	43·7	+ 1·4	22	7	7	2·21	+ 1·64	*7·0*	—	*13*	—	*Liverpool.*
	a Hawarden Bridge ..	54	28th	35	4th	50·7	40·2	45·7	+ 1·9	33	5	7	1·25	+ 0·73	*5·1*	*− 3·5*	*9*	*− 7*	*Southport.*
															5·5	—	*10*	—	*Rhyl.*
b, NORTH WALES ..	p Llandudno .. M	51	28, 29, 2, 3	35	4th	48·5	39·3	44·1	− 0·8	26	8	7	1·86	+ 1·19	3·8	− 6·5	7	− 12	Llandudno.
	a Holyhead ..	52	28th	38	4th	47·9	41·9	45·0	− 0·5	21	0	7	1·10	+ 0·15	5·2	—	9	—	Aberdovey.
	p Bettws-y-Coed ..	52	2nd	32	4th	47·4	38·6	43·2	− 1·4	23	10	7	4·19	—	2·5	—	5	—	Bettws-y-Coed.
															4·0	—	7	—	Aberystwyth.
8. — a, SOUTH WALES ..	a Llangammarch Wells	51	2nd	32	4th	45·7	37·5	41·8	+ 1·0	10	20	7	4·25	—	4·2	—	8	—	Llangammarch Wells.
	a Pembroke ..	54	2nd	34	4th	50·1	43·3	46·8	+ 0·2	34	0	7	1·53	+ 0·63	7·7	− 4·8	14	− 8	Pembroke.
	a Cardiff ..	52	28th, 2nd	32	4th	48·7	39·3	44·2	+ 1·7	27	8	7	2·22	+ 1·23	*9·4*	—	*17*	—	*Cardiff.*
															7·6	*− 4·9*	*13*	*− 9*	*Tenby.*
b, ENGLAND, S.W. ..	a Clifton ..	53	2nd	37	4th	48·9	41·6	45·4	+ 1·9	25	1	7	2·61	+ 1·84	*5·8*	—	*10*	—	*Clifton.*
	a Shaftesbury .. 𝔐	51	28th	34	4th	46·3	39·0	42·8	+ 0·6	18	8	7	1·45	+ 0·65	*	*	*	*	* *
	a Arlington ..	50	28, 29, 1st	35	4th	47·0	40·0	43·6	+ 0·4	20	6	7	3·65	+ 2·30	7·5	− 7·5	13	− 13	Newquay.
	a Cullompton .. 𝔐	54	2nd	37	4th	50·3	41·0	45·8	+ 2·5	31	3	7	2·14	+ 1·29	6·8	− 4·0	12	− 7	Cullompton.
	a Portland Bill ..	53	1st, 2nd	45	30th, 3rd	50·9	46·7	48·9	+ 2·9	48	0	7	1·00	—	*10·9*	—	*19*	—	*Weymouth.*
	p Plymouth ..	54	1st, 3rd	39	4th	51·5	43·9	47·9	+ 1·7	41	0	7	2·00	+ 1·10	11·3	− 1·7	20	− 3	Plymouth.
	p Falmouth ..	54	1st	39	4th	50·4	43·3	47·0	− 0·1	35	0	7	3·24	+ 2·04	8·5	− 5·9	15	− 10	Falmouth.
															12·8	*− 0·4*	*22*	*− 1*	*Torquay.*
9. IRELAND, N. — a, West.	a Malin Head ..	51	28th	35	3rd	45·6	37·7	41·8	− 2·3	10	19	7	2·40	+ 1·65	*	*	*	*	* *
	a Blacksod Point ..	55	28th	35	3rd, 4th	48·9	38·6	44·0	− 1·4	28	10	7	2·48	+ 1·20	*	*	*	*	* *
	p Markree Castle ..	52	28th	29	4th	47·3	35·5	41·6	− 0·8	15	28	7	2·39	+ 1·39	10·4	+ 0·2	19	0	Markree Castle.
	a Birr Castle ..	52	28th, 2nd	25	4th	47·1	35·4	41·5	− 1·0	14	28	6	1·31	+ 0·57	*16·3*	*+ 3·5*	*30*	*+ 6*	*Birr Castle.*
b, East.	p Armagh ..	51	28th	30	4th	43·8	34·5	39·3	− 2·9	5	29	6	1·59	+ 0·90	8·3	− 2·4	15	− 4	Armagh.
	a Donaghadee ..	51	28th, 30th	32	4th	45·9	37·0	41·6	− 2·0	11	21	6	1·12	+ 0·40	*	*	*	*	* *
10. IRELAND, S. — a, East.	p Dublin, City ..	53	29th	32	4th	47·8	38·5	43·3	− 1·4	24	10	6	1·17	+ 0·58	12·4	− 1·4	23	− 3	Phœnix Park.
	a Kilkenny ..	53	2nd	30	4th	47·9	37·4	42·9	0·0	26	13	6	1·46	+ 0·71	*	*	*	*	* *
	a Waterford ..	52	1st, 2nd	34	4th	48·7	39·4	44·2	0·0	26	7	6	0·72	− 0·22	*	*	*	*	* *
b, West.	a Birr Castle ..	52	28th, 2nd	25	4th	47·1	35·4	41·5	− 1·0	14	28	6	1·31	+ 0·57	16·3	+ 3·5	30	+ 6	Birr Castle.
	a Foynes ..	54	2nd	33	4th	49·6	39·5	44·8	0·0	30	7	7	2·26	+ 1·27	*	*	*	*	* *
	a Cahir .. 𝔐	52	2nd	33	4th	47·9	37·8	43·1	− 1·1	25	12	6	1·89	—	*	*	*	*	* *
	a Killarney ..	56	2nd	34	4th	49·9	39·4	44·9	− 0·1	31	7	7	2·40	+ 0·93	*	*	*	*	* *
	a Valencia ..	54	30th, 2nd	37	28th	50·6	41·1	46·0	− 0·9	32	3	7	2·30	+ 0·92	6·3	− 6·5	11	− 12	Valencia.
	a Roche's Point ..	54	2nd	37	4th	49·0	41·4	45·4	− 0·8	26	2	7	0·73	− 0·37	18·5	—	33	—	Ballinacurra.
11. ENGLISH CHANNEL ..	a Scilly, St. Mary's ..	55	1st, 2nd	43	28th	52·4	45·4	49·0	− 0·1	49	0	7	2·49	+ 1·63	1·7	− 13·2	3	− 23	Scilly.
	a Jersey, St. Aubins ..	55	1st	39	28th	52·3	44·6	48·6	+ 1·2	46	0	7	3·27	+ 2·35	8·8	− 7·2	15	− 12	St. Heliers.
	a Guernsey ..	54	1st	41	4th	51·0	44·6	47·9	+ 0·2	41	0	7	3·00	+ 1·98	6·8	− 5·3	12	− 9	Guernsey.

Additional Sunshine Totals for the week:— Brighton [illegible]

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound ..	—	—	38·8	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	41·8
	Crathes	6	18	37·4	41·1
	Balmoral	7	21	—	—
	West Linton.. ..	5	17	—	—
	Marchmont ..	5	21	37·0	—
2.	Cockle Park	5	26	37·0	40·8
	Durham	3	22	—	—
	York	—	—	40·7	45·1
	Hull	4	26	40·0	46·6
	Lincoln	—	—	39·7	44·4
	Rauceby	1	27	41·1	46·0
3.	Norwich	1	26	—	—
	Yarmouth	—	—	41·1	45·7
	Lowestoft	1	30	41·7	45·8
	Cambridge ..	6	22	41·1	45·2
	Clacton-on-Sea ..	1	30	43·3	47·1
	Southend	2	28	42·0	—
	Tottenham	0	33	—	46·6
4.	Harrogate	2	28	40·5	42·4
	Huddersfield ..	2	28	39·2	43·9
	Buxton	4	20	38·8	43·8
	Sheffield	5	25	40·2	45·1
	Nottingham.. ..	3	28	39·7	43·0
	Birmingham.. ..	1	27	42·3	46·4
	Oxford	3	29	—	—
	Hereford	5	27	—	—
	Cirencester	2	29	—	—
5.	Margate	0	34	43·3	45·6
	Greenwich	1	30	—	—
	Westminster ..	0	32	—	—
	Kew	1	29	42·0	46·3
	Canterbury	0	32	42·1	43·2
	Tunbridge Wells ..	1	28	40·9	—
	Wisley	1	30	41·9	45·1
	Worthing	0	31	42·8	46·8
	Portsmouth	0	31	44·3	47·4
6.	Glasgow	4	18	—	—
	Rothesay	—	—	—	42·7
	Colmonell	1	28	—	—
	Dumfries	3	24	37·1	41·4
	Douglas	1	30	—	—
7.	Aspatria	4	20	—	—
	Newton Rigg ..	4	21	38·7	42·2
	Burnley	1	23	39·3	43·2
	Southport	2	28	39·3	42·0
	Manchester City ..	1	26	39·8	44·8
	Bettws-y-Coed ..	0	31	42·1	45·0
8.	Llangammarch Wells	1	30	42·3	46·1
	Cardiff	1	25	42·6	45·7
	Clifton	0	34	—	—
	Bath	—	—	43·0	46·4
	Plymouth	0	34	46·6	—
9.	Armagh	3	28	41·0	44·9
	Markree	2	22	41·1	46·1
10.	Dublin, Trin. Coll. ..	2	23	42·2	45·6
11.	Guernsey, Brooklyn	0	34	46·5	49·3

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	45	45	45·0
	Kirkwall	43	42	42·3
	Wick	48	48	48·0
SCOTLAND, E.	Cromarty	44	40	41·9
	Pennan Bay	43	40	41·7
	Aberdeen, Cove Bay ..	45	45	45·0
ENGLAND, N.E.	Burnmouth, Berwick ..	43	40	41·7
	Scarborough	47	36	41·4
ENGLAND, E.	Shipwash Lightship ..	47	44	45·5
	Margate‡	47	42	44·2
ENGLAND, S.E.	Eastbourne‡	46	44	45·0
SCOTLAND, W.	Lamlash	49	47	48·0
	Ballantrae	46	44	44·8
ENGLAND, N.W.	Port Erin	50	49	49·3
ENGLAND, S.W.	Newquay	49	49	49·0
	Plymouth†	50	49	49·1
	Salcombe	50	48	49·0
IRELAND, N.W.	Sheephaven	48	46	46·6
	Teelin	48	43	45·7
IRELAND, S.W.	Cleggan	48	43	46·0
	Seafield	51	47	49·8
IRELAND, E.	.. ..			

‡ Only one observation each day.

GALE OF DECEMBER 2ND AND 3RD, 1909.

The following wind observations have been reported for the gale of December 2nd and 3rd.

(1). Telegraphic Reporting Stations. Greatest wind-force on the Beaufort scale (0—12) :—

Sumburgh Head	NE 6	Jersey	W 8
Malin Head	W 9	Dungeness	SW 10
Blacksod Point	NE 8	Dover	WSW 9
Valencia	WNW 8	Aberdeen	NE 7
Roche's Point	W 9	North Shields	WNW 8
Liverpool	WSW 9	Spurn Head	W 10
Holyhead	NW 8	Yarmouth...	SW to W 8
Pembroke	SW 10	Clacton-on-Sea	WSW 8
Scilly	W 10	Nottingham	W 9
Portland Bill	WSW 10	London	W 10

(2). Anemograph Stations :—

	Greatest "run" in one hour.		Greatest velocity in a gust.
Kew	31 miles from	WSW	59 miles per hour.
Shoeburyness	38 ,, ,,	—	72 ,, ,, ,,
Gorleston	41 ,, ,,	WSW	65 ,, ,, ,,
Alnwick Castle	37 ,, ,,	N	66 ,, ,, ,,
Holyhead	54 ,, ,,	NW	69 ,, ,, ,,
Scilly	49 ,, ,,	W	75 ,, ,, ,,
Pendennis Castle	55 ,, ,,	—	75 ,, ,, ,,
Fleetwood	66 ,, ,,	WNW	—

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows :—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139-143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇛ = a heavy gale; ⇾ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows :—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

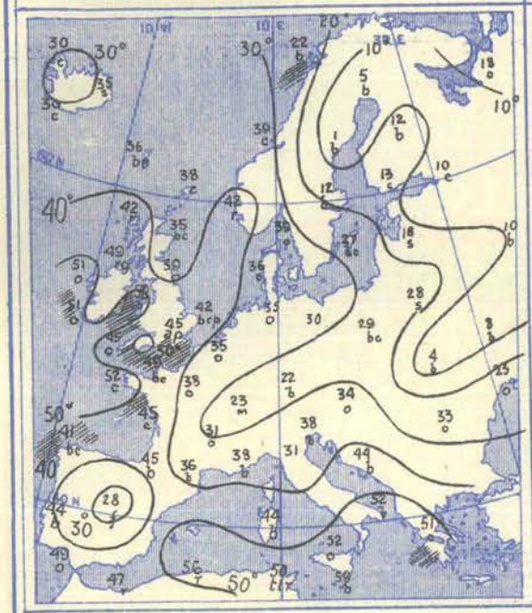
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

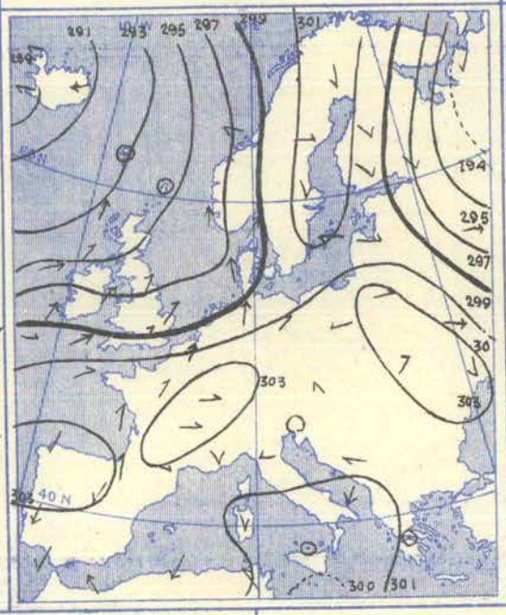
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 28th November, 1909.

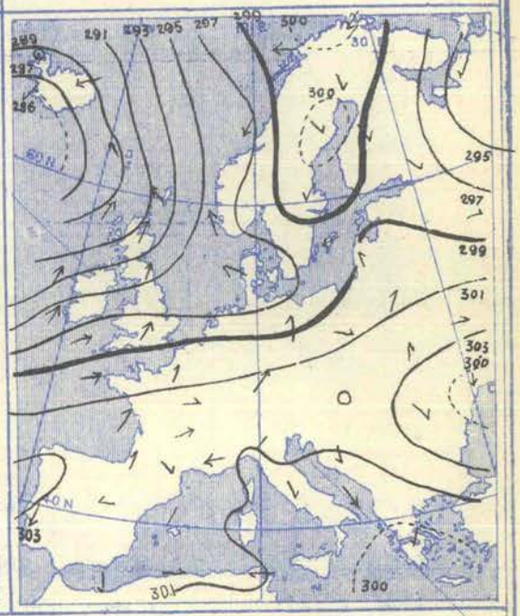
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in several parts of these Islands; much cloud in the west and north of our area generally, with rain or snow in southern Scandinavia. Generally fair in the south, but rainy in Algeria. Rain experienced later throughout this country and the nearer regions of the Continent, as well as at Palermo and Malta and in Greece.

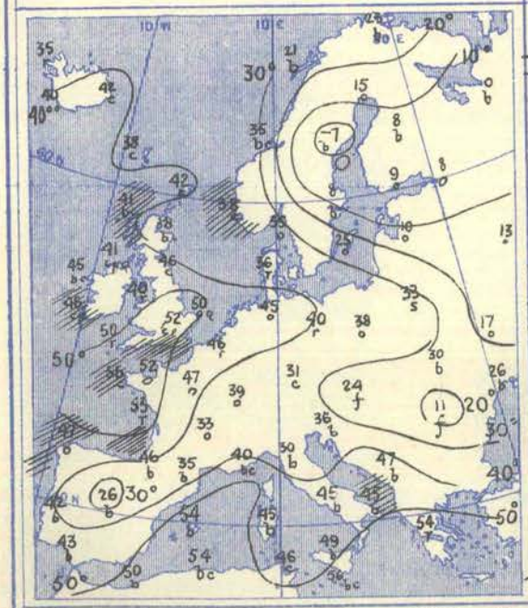
Temperature fallen over Scotland and Norway, risen over England, Ireland, and France. Morning readings ranging from above 50° at some stations in the extreme south of our area, and also in the west of Ireland, to below 32° over a wide area on the Continent, and to below 10° in some parts of Russia and Sweden. Maxima during day 50° or slightly higher in nearly all parts of the United Kingdom, but below 40° in the central countries, and below 32° in the far north and east. Thermometer rising to above 60° in the extreme south of our area.

Wind in morning mainly between South and South-West in this country, and between South and East in Norway and Iceland; fresh to strong in many places. A moderate to light Northerly breeze prevailing in Russia, and also over the greater portion of the Mediterranean. No general change later; veering somewhat over England, and increasing in strength in many parts of these Islands.

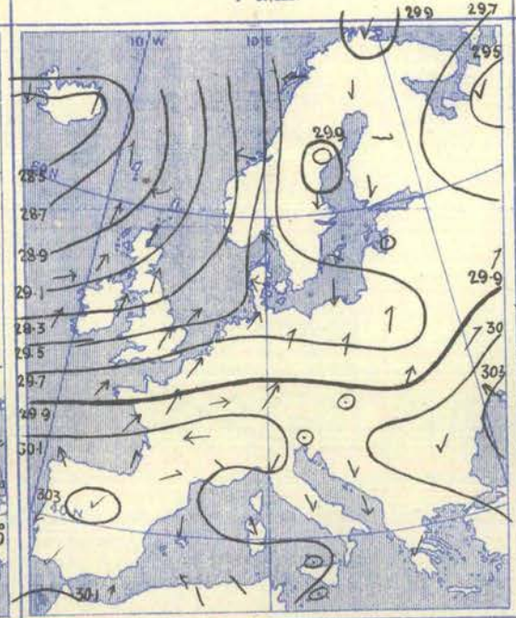
Barometer in morning above 30·2 ins. in a long anticyclonic band extending from beyond Portugal to the Black Sea and Little Russia. Below 28·9 ins. in a very large cyclonic system having its minimum off the south-west of Iceland. Some ill-defined secondary disturbances over the United Kingdom and its neighbourhood. Not much modification occurring later in the general distribution of pressure, but main depression moving in an easterly or south-easterly direction towards these Islands.

Monday, 29th November, 1909.

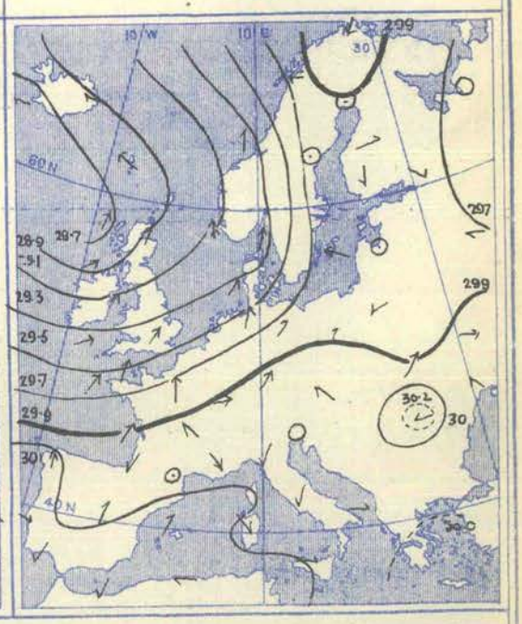
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rather rough and very unsettled over these Islands and the north-western countries of Europe generally, with rain in places over a large area. Mostly fair to bright over the Mediterranean region, but rainy at Patras. Rain experienced later in most parts of this country, and heavy amounts in the west and north of France. Heavy rain or snow over the greater portion of Scandinavia; as much as 1·4 in. at Karlstad.

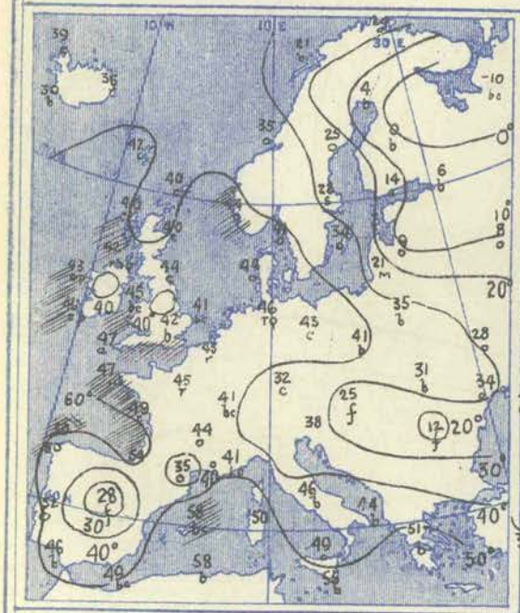
Temperature fallen in most regions, risen in Great Britain and France, and also in Poland. Morning readings ranging from above 50° in the south and south-west of England, and over a wide area in the far south of Europe, to below 20° at various places in the eastern and northern parts of the Continent, to below 10° at several stations, and to zero at Archangel. Thermometer subsequently rising to a little above 50° in many parts of England, and to about 55° in the west of France, but only touching 46° at Pesaro, 38° at Turin, and remaining below 32° very generally in Scandinavia and Russia.

Wind in morning showing a very extensive cyclonic circulation over the north-western countries; South-Westerly current fresh to high over these Islands and their immediate vicinity, and that from South blowing a gale at Skudesnaes; strong winds or gales from North-East prevailing in the greater part of Iceland. A separate cyclonic movement of considerable force shown over the central countries. Not much change during day; an Easterly gale setting in at Karlstad, and wind falling light in Iceland.

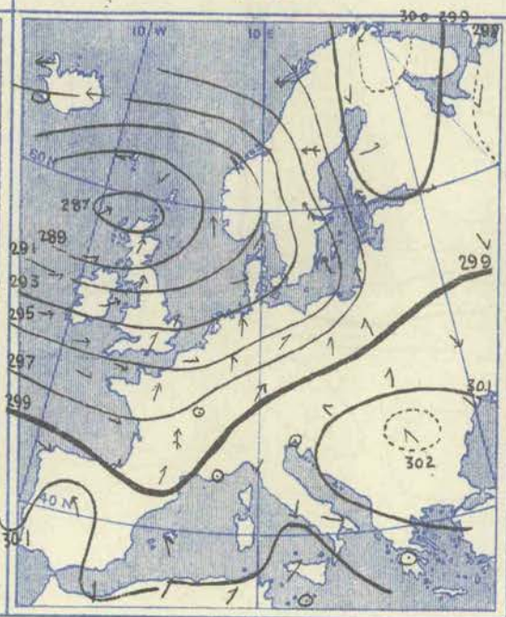
Barometer in morning above 30·3 ins. both in the south-east and south-west of our area; below 29·6 ins. in a depression over Germany, and below 28·5 ins. in a very large system having its minimum to the south of Iceland. Relatively low in shallow disturbances over Italy and Greece. Main depression moving south-eastward later and becoming rather less deep. Pressure giving way decidedly in these Islands, France, and the North Sea region; rising briskly in Iceland.

Tuesday, 30th November, 1909.

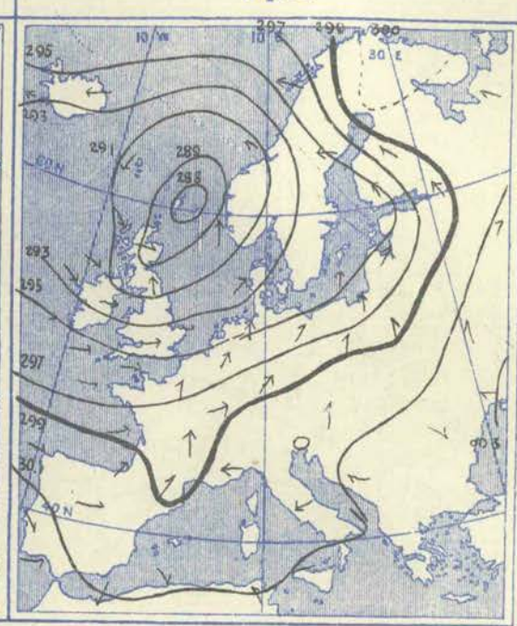
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and quiet over nearly the whole of the Mediterranean region and Russia, generally rough and variable elsewhere, rain in many places over a large area in these Islands, France, and Germany, and snow in Scandinavia. Bright in the south-east of England. Rain, rather heavy in places, experienced later over the major portion of this country, the Netherlands, and France, as well as in Italy, and rain or snow in Scandinavia and Finland.

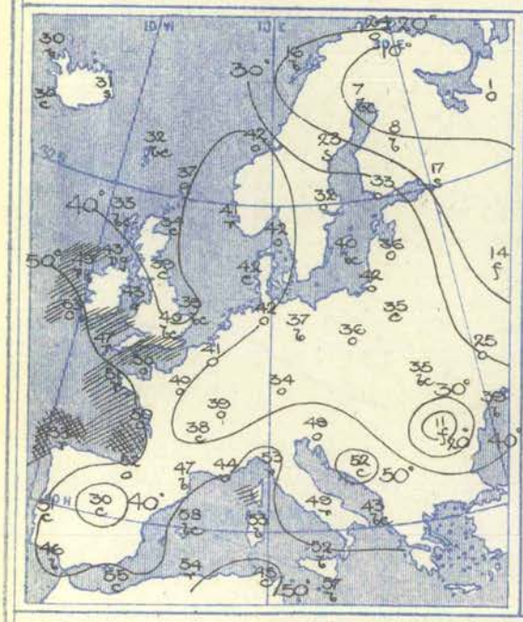
Temperature changed somewhat irregularly; risen in Scandinavia and Germany, fallen in these Islands. Morning readings −10° at Archangel, and below 10° over the north-east of Europe generally; below 32° over a very large area in the east; above 45° in most southern regions, and above 50° in places. Maxima during day above 60° in the south of Spain and in Algeria and the Mediterranean Islands, and above 50° over the greater part of France. Frost continuing all day in the east and north; maximum at Haparanda only 10°.

Wind in morning showing a single cyclonic circulation occupying the greater portion of our area; strong in force from various directions, and high in places, but no gale except in Scandinavia and at Lyons. Moderate variable airs general in the south of Europe. Little change later; Easterly wind increasing to a gale over Iceland.

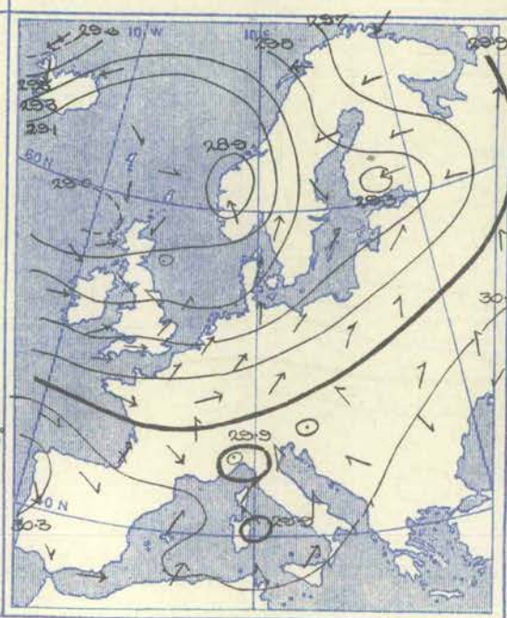
Barometer in morning ranging from above 30·2 ins. in Transylvania, to below 28·7 ins. in a depression centred over the north of Scotland. Gradient steep in most parts of Scandinavia, and rather steep over a very large area. Depression moving eastwards during day, and barometer rising decidedly in the west of these Islands for a time. No important change occurring in the general distribution of pressure.

Wednesday, 1st December, 1909.

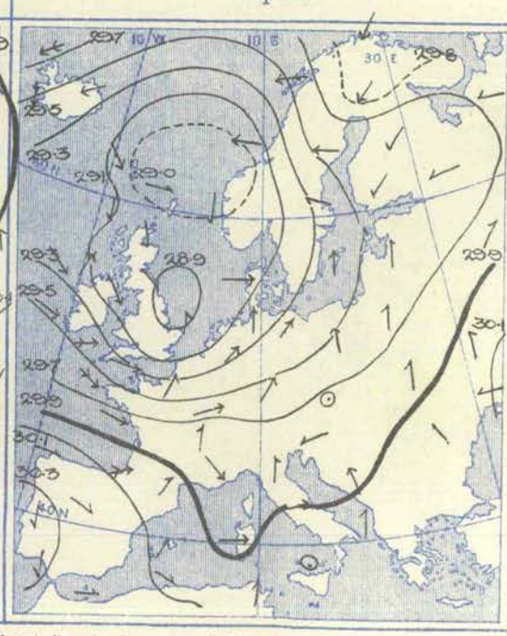
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled and rather squally throughout all the north-western countries, with rain in places in these Islands, and rain or snow in Scandinavia. Mostly fair to fine in the south of Europe, but rain falling at Corunna and in some parts of Italy. Rain also at several stations in Algeria. Considerable or heavy precipitation later in almost all parts of our area except the Spanish Peninsula, Austria, and the southern half of Russia. More than an inch at some French stations.

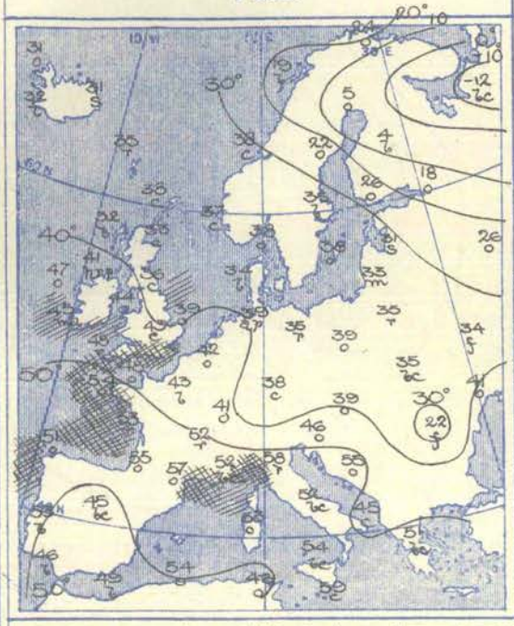
Temperature changed irregularly; readings in morning below 45° in most parts of these Islands and their vicinity, and very little higher over a large portion of southern Europe, but above 55° at some stations on the Mediterranean Islands. Below 20° in the east and north-east of our area, and as low as 1° at Archangel. Maxima during day below 50° at nearly all of our own stations, and below 45° at most places in central Europe, but above 60° in the far south. Frost continuing all day at Hermanstadt and Bucharest.

Wind in morning cyclonic in almost all parts of our area; fresh to strong on various parts of our own and the French coast, strong to high in Denmark and Scandinavia, and strong to a gale in Iceland. Generally light to moderate over the Mediterranean and Russia. Increasing to a gale from West later on the western and southern coasts of these Islands and also on the Bay of Biscay.

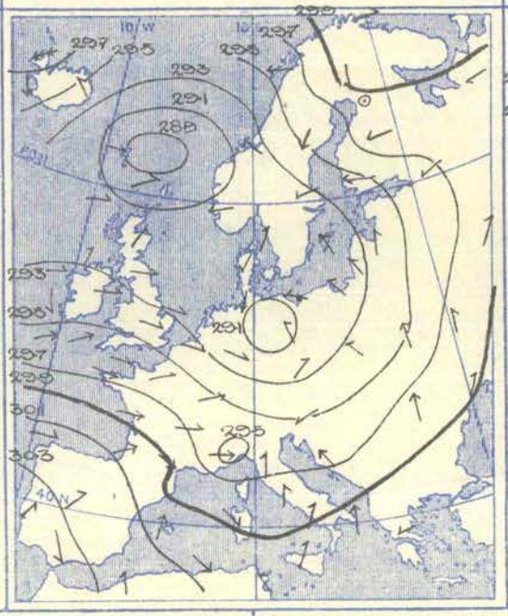
Barometer in morning ranging from above 30·3 ins. in Portugal, and above 30·2 ins. in the south of Russia, to below 29·0 ins. off the north-west of Ireland, and to below 28·9 ins. in a depression off the west of Norway. Falling with great rapidity during day over England; a depression with readings below 28·9 ins. lying over the east of England by 6.0 p.m., and a recovery of pressure setting in in the west of these Islands. Gradient becoming steep over England and France, but remaining slight in Scotland.

Thursday, 2nd December, 1909.

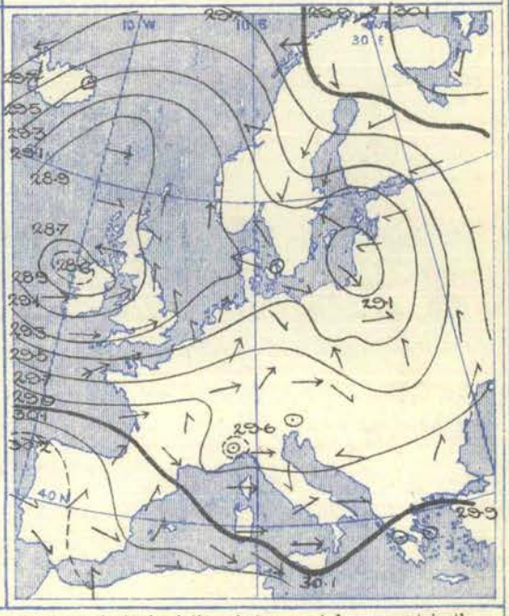
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled and rainy or showery in many parts of these Islands and in various places over the western half of the Continent; cloudy to fair in most other regions, but snow falling at Helsingfors, rain at Warsaw, and fog prevailing at Kieff and Bucharest. Large quantities of rain later in this country, about an inch in many localities, and considerable falls of rain or snow in various parts of the Continent.

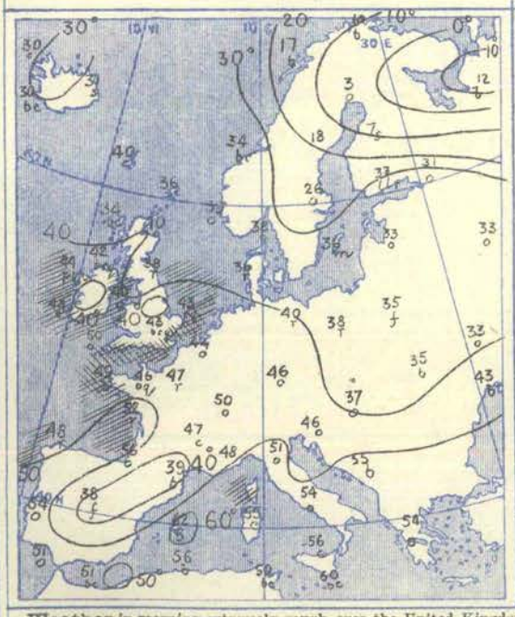
Temperature risen somewhat in most southern districts and fallen in many northern localities. Readings in morning ranging from 60° at Palma, and 59° at Malta, to about 40° in the central countries and at several stations in England, to below 32° over a large area in the east and north-east of the Continent, and to –12° at Archangel. Maxima during day above 50° in most parts of England and Ireland, but below 40° in some Scottish localities. Thermometer rising to above 60° in the extreme south of France. Sharp frost at night in eastern and central Scotland.

Wind in morning showing three separate cyclonic circulations, but no great force except in the south of Europe and in Iceland. A Westerly gale prevailing in the south of France, the north of Italy, and in Corsica. Increasing to a gale by evening over the west and south of these Islands, and blowing a strong to whole gale from South-West or West during night over nearly the whole of Ireland, England, and France. Wind continuing strong on the Mediterranean, and a gale from East springing up in the north of Norway.

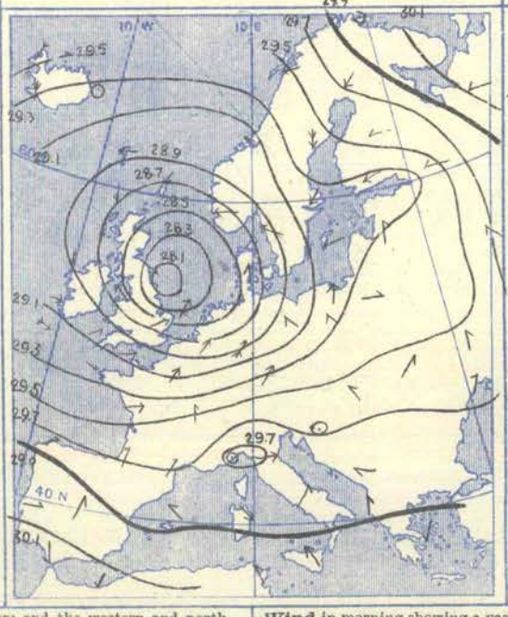
Barometer in morning below 29·0 ins. in depressions over Germany, and between the Faeröe and Norway, and below 29·5 ins. in a small minimum over the Gulf of Genoa. Barometer falling very quickly over this country during day, and a deep depression, with the barometer as low as 28·6 ins., lying off the north-west of Ireland by evening. Depression subsequently travelling eastward and increasing in intensity, and barometric gradient growing unusually steep over Ireland, England, and the adjacent regions, and also in the far north of our area.

Friday, 3rd December, 1909.

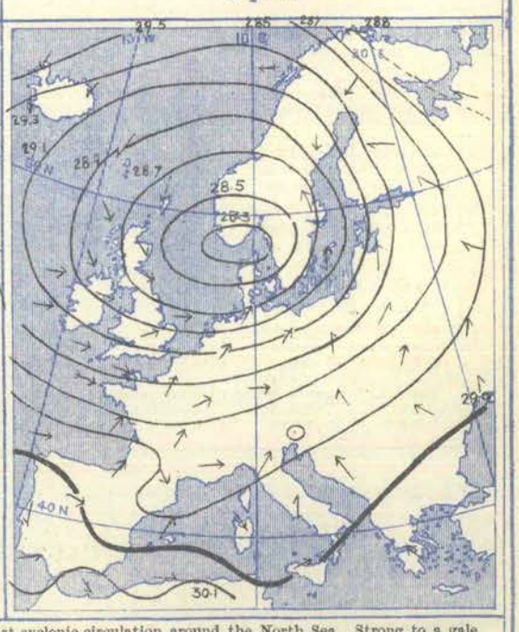
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning extremely rough over the United Kingdom and the western and north-western countries of the Continent, with showers and squalls in places and steady rain in some localities. A thunderstorm in progress at Helsingfors, and snow falling at Hangö and Hernösand. Generally fair to fine over the Mediterranean, but overcast at some stations. More or less precipitation later in nearly all parts of our area except in Italy, the south of France, and Algeria, and thunderstorms at Nantes and at some of our own stations.

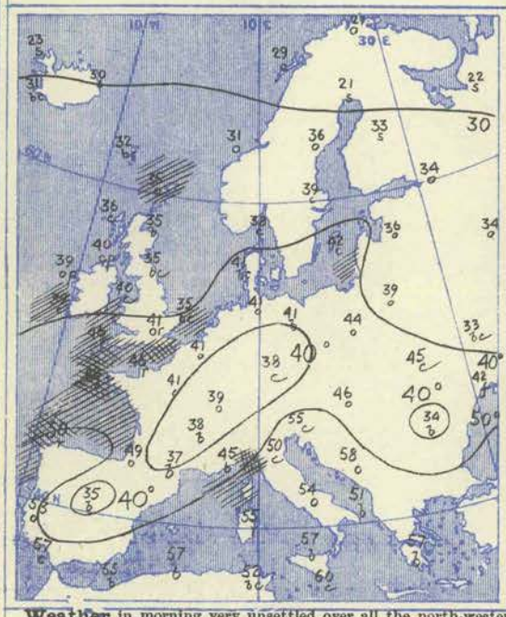
Temperature changed irregularly. Morning readings below 40° at most places in the northern half of these Islands, below 20° over the north of Scandinavia and in Finland, and as low as –12° at Archangel. Thermometer standing at 50° or higher at most stations in the south of our area, and at 60° and 62° respectively at Malta and Palma. During the day the thermometer rose to above 60° at many places in the far south, but remained below 50° over Europe as a whole, and below 40° over a considerable area; frost continuing all day in the north and north-east.

Wind in morning showing a vast cyclonic circulation around the North Sea. Strong to a gale generally, and blowing with the force of a strong or whole gale in many localities. No stronger than a fresh breeze at any of the Scottish stations. Light to moderate winds from various quarters prevailing over the Mediterranean. Force decreasing somewhat during day over these Islands, but little other change. Increasing in strength over the northern regions of the Continent.

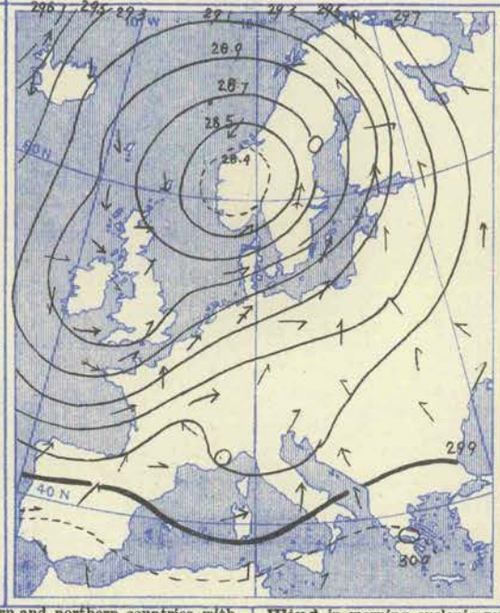
Barometer in morning unusually low—below 28·0 ins.—in a very important cyclonic system having its minimum over the North Sea about a hundred miles off the north-east coast of England; above 30·1 ins. both in the far north-east and south-west of our area. Gradient extremely steep over England, Denmark, the Netherlands, and the south of Norway, and steep over the north-west of Europe generally. Cyclonic centre travelling north-eastwards during day, and gradient decreasing slowly over the United Kingdom. A fresh fall of the mercury setting in at night in the north-west of these Islands.

Saturday, 4th December, 1909.

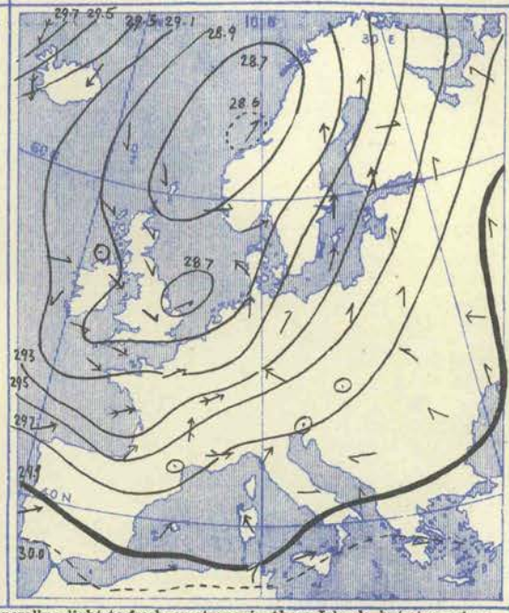
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning very unsettled over all the north-western and northern countries, with rain in places over a large area, and some snow in a few northern localities. Fair to fine generally in the south and south-east, but rainy at Cagliari. More or less precipitation later over nearly the whole of our area except Russia and Algeria. Fall more than an inch in several French localities. Thunderstorms occurring at Malin Head and Jersey, and lightning at some of our other stations.

Temperature fallen in these Islands, risen over the major portion of the Continent. Morning readings ranging from about 60° at some places in the far south to below 40° in most parts of this country and at a large number of stations on the Continent, and to below 30° in the north. Maxima during day below 40° in the north-east of Britain, and not much above 45° in the central districts of Europe and the east of France, but above 65° at some places in the extreme south, and as high as 69° at Palermo. Frost at night over the major portion of the United Kingdom.

Wind in morning cyclonic generally; light to fresh or strong in these Islands, but strong to a gale over the Bay of Biscay and France, and also over the Baltic and Scandinavia and in Iceland. Light to fresh winds, mainly from between West and South, prevailing in the far south of our area. No general change later in day, but veering towards West in the south and south-east of England.

Barometer in morning still very low over all the western and northern countries, below 28·4 ins. over the south-west of Norway, and below 28·7 ins. in a small minimum over the Bristol Channel. Gradient only moderate to slight in this country, but steep over most of the surrounding region. Main depression moving northward during day and decreasing somewhat in depth, and that over these Islands travelling to the North Sea off the east of England. Little modification occurring in the general distribution, and the gradient remaining steep over the greater portion of the Continent.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Nov. 29th, 3.30 p.m. to 4.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	277·6° 97% 225°, 5	276·8° 97% 234°, 8	276·3° 97% 240°, 9	**272·7°** 100% 270°, 16				**269·1°** 100% 276°, 17	1,400	Fair to overcast. Gentle breeze. Clouds, Cu. and Cu.-Ni.
2	Nov. 30th, 8.50 a.m. to 10.12 a.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	275° 91% 202°, 8	274·4° 93% 210°, 10	274° 94% 212°, 11	**270·7°** 98% 256°, 19				**268·1°** 100% 266°, 18	1,350	Fair. Moderate breeze. Clouds, Cu. and Cu.-Ni.
3	Dec. 1st, 11.40 a.m to 12.50 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	276·0° 100% 191°, 7	275° 100% 203°, 11	274·3° 100% 211°, 13	**270·7°** 100% 210°, 17				**270·3°** 100% 212°, 18	1,090	Dull and wet. Moderate breeze. Clouds, Ni.
4	Dec. 2nd, 11.30 a.m. to 1.45 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	276·0° 99% 185°, 4	274·6° 99% 190°, 7	274·2° 100% 192°, 9	**270·3°** 100% 209°, 13				**270°** 100% 210°, 13	1,060	Overcast and dull. Light to gentle breezes. Clouds, Ni.
5	Dec. 3rd, 1.0 p.m. to 1.17 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	274·3° 100% —°, 12	273·6° 100% —°, 15	273·2° 100% —°, 16					**270·3°** 100% —°, 20	820	Overcast and dull. Some rain. High wind. Clouds, Ni.
6	Dec. 4th, 1.0 p.m. to 1.40 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	**272·7°** 91% 360°, 2	**272°** 91% 354°, 2	**271·6°** 91% 352°, 4					**269·2°** 92% 352°, 5	810	Fair to overcast. Ground covered with snow. Light air to light breeze. Clouds, Cu., St.-Cu., and Cu.-Ni.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3	4	5	6
No. of Kites	1	1	1	1	1	1
Area of Surface (sq. metres) ..	7·6	7·6	7·6	7·6	7·6	—
Capacity of Balloon (cub. metres)	—	—	—	—	—	3·6

63, Victoria Street, London, S.W. *December 8th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 49. FORTY-NINTH WEEK, SUNDAY DECEMBER 5TH TO SATURDAY DECEMBER 11TH, 1909. *[Price 6d. Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather.—The general condition was changeable, frequent, and in some cases heavy, falls of rain being interspersed with considerable intervals of fine bright weather. Snow showers occurred in several northern and eastern localities early in the week. Thunderstorms were experienced in various parts of Great Britain between Sunday and Tuesday. At Brighton a thunderstorm at 3.45 a.m. on Tuesday was accompanied by snow.

Temperature was below the average, the greatest deficit being 4°·7 in Scotland W., and the least 1°·7 in the Midland Counties. The highest of the maxima were registered during the latter half of the week, and ranged from 56° in Ireland, England N.W., and Scotland E., to 50° in England S.E. The lowest of the minima were recorded at most places on Tuesday or Wednesday. In Scotland E. the thermometer fell to zero at Balmoral on Tuesday, and to 6° at West Linton on Thursday, and in Scotland W. to 12°, while elsewhere the values ranged from 15° in England N.W. to 24° in England E. and S.W., and to 34° in the English Channel. The lowest grass readings reported were zero at Balmoral, 4° at West Linton, 5° at Newton Rigg, 9° at Buxton, and 10° at Burnley. In several other localities the readings were below 20°.

Mean Temperature of the Sea.—At almost all stations the water was colder than during the corresponding week of last year, the difference being about 5° in several localities. The means for the week ranged from 49° at Seafield, and 48° at Plymouth and Port Erin, to about 40° on the north-east coast of England.

Rainfall was much above the average in most parts of Great Britain, and slightly in excess in Ireland S., but in Ireland N. there was a deficit. Some heavy continuous falls occurred in the west of Scotland on Thursday, the largest measurements being 2·46 ins. at Fort William, 2·94 ins. at Laudale, and in the east on Saturday, 2·09 ins. at Stonehaven, and 1·48 in. at Aberdeen. On Friday, more than an inch fell in the north of England, the heaviest amount being 1·92 in. at Lancaster, and on Saturday 1·66 in. fell at Arlington.

Bright Sunshine exceeded the normal in all parts of Great Britain except Scotland W., England S.W., and the English Channel district, the highest percentages of the possible duration being 31 in England S.E., and 30 in Scotland E. In Ireland the week was much more cloudy, the percentage of the possible amount in Ireland N. being only 10.

Barometer and Wind.—Cyclonic conditions prevailed during the whole period, the larger disturbances travelling in an easterly direction over the Icelandic region to Scandinavia, and some of the smaller ones moving from the westward directly across these islands. The resulting winds, mainly between South-West and North-West, were seldom stronger than a fresh breeze and generally only moderate, but on Thursday and Friday a strong breeze to high wind was general on the south-western and western coasts. By the end of the week pressure was rising decidedly over Iceland and Scandinavia and falling over the Peninsula, France, and Germany, while a depression off the west of Ireland was dispersing or moving away westward.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 364.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Deficient	Deficient	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Moderate	Moderate
	Sunshine ...	Abundant	Very abundant	Moderate	Abundant	Moderate	Abundant	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1 week from Dec. 5th, 1909.	Warmth ...	0 * 1	0 * 1	0 * 1	0 * 0	0 * 0	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1
	Rainfall ...	0 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	0 * 0	0 * 0	0 * 0
	Sunshine ...	1 * 0	1 * 0	0 * 0	1 * 0	0 * 0	1 * 0	0 * 0	0 * 0	0 * 0	0 * 1	0 * 0	0 * 0

PAST SEASONS.

WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4
AUTUMN, 1909. Sept. 5th–Dec. 4th. 13 weeks.	Warmth ...	2 * 6	3 * 5	2 * 6	4 * 5	4 * 5	3 * 6	3 * 7	3 * 6	3 * 6	4 * 7	4 * 6	3 * 5
	Rainfall ...	5 * 7	5 * 4	1 * 4	3 * 1	3 * 4	5 * 4	4 * 5	4 * 6	4 * 5	4 * 7	5 * 8	5 * 5
	Sunshine ...	5 * 2	5 * 3	3 * 5	2 * 6	2 * 5	3 * 2	5 * 5	5 * 2	4 * 4	5 * 2	5 * 2	4 * 5

8261/450 Wy. & S. Ltd. 12—09.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FORTY-NINTH WEEK—December 5th to December 11th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	54	16	41·1	30·6	36·1	− 3·7	0	− 10	41	+ 13	6	+ 1	1·64	+0·10	9	+ 3	19	+7
Eastern																		
1. SCOTLAND, EAST	56	0	41·0	27·4	34·5	− 3·9	0	− 9	53	+ 19	3	− 2	1·02	+0·24	14	+ 6	30	+13
2. ENGLAND, N.E.	54	21	43·1	31·7	37·6	− 2·5	3	− 8	38	+ 12	5	+ 1	1·03	+0·48	11	+ 1	20	+ 2
3. ENGLAND, EAST	51	24	42·2	32·6	37·6	− 2·2	1	− 12	34	+ 4	6	+ 1	0·86	+0·32	14	+ 4	25	+ 7
4. MIDLAND COUNTIES	53	23	43·2	31·7	37·7	− 1·9	3	− 10	39	+ 8	5	+ 1	0·80	+0·20	9	+ 1	17	+ 1
5. ENGLAND, S.E.	50	20	43·7	33·1	38·6	− 3·1	5	− 14	34	+ 13	5	0	0·95	+0·24	17	+ 7	31	+12
Western																		
6. SCOTLAND, WEST	55	12	42·4	30·9	36·9	− 4·7	1	− 14	41	+ 22	4	− 1	2·22	+0·87	8	0	15	0
7. ENGLAND, N.W.	56	15	43·9	34·0	39·2	− 2·3	5	− 10	31	+ 12	6	+ 1	1·37	+0·47	8	+ 1	16	+ 1
8. ENGLAND, S.W.	53	24	45·9	35·6	40·9	− 2·2	11	− 13	26	+ 11	5	0	1·51	+0·35	10	− 1	18	− 2
9. IRELAND, NORTH	56	20	45·0	33·6	39·6	− 1·9	8	− 7	34	+ 14	6	0	0·84	−0·07	5	− 4	10	− 9
10. IRELAND, SOUTH	56	20	46·0	35·0	40·7	− 2·6	11	− 14	29	+ 14	6	+ 1	1·03	+0·02	9	− 3	16	− 5
11. ENGLAND CHANNEL	54	34	47·6	39·5	43·7	− 3·1	22	− 15	7	+ 4	7	+ 2	1·13	+0·07	11	− 3	18	− 5

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 1 Week, December 5th to December 11th, 1909.

0. SCOTLAND, NORTH	54	16	*	*	*	*	0	− 10	41	+ 13	6	+ 1	1·64	+0·10	9	+ 3	19	+ 7
Eastern																		
1. SCOTLAND, EAST	56	0	*	*	*	*	0	− 9	53	+ 19	3	− 2	1·02	+0·24	14	+ 6	30	+13
2. ENGLAND, N.E.	54	21	*	*	*	*	3	− 8	38	+ 12	5	+ 1	1·03	+0·48	11	+ 1	20	+ 2
3. ENGLAND, EAST	51	24	*	*	*	*	1	− 12	34	+ 4	6	+ 1	0·86	+0·32	14	+ 4	25	+ 7
4. MIDLAND COUNTIES	53	23	*	*	*	*	3	− 10	39	+ 8	5	+ 1	0·80	+0·20	9	+ 1	17	+ 1
5. ENGLAND, S.E.	50	20	*	*	*	*	5	− 14	34	+ 13	5	0	0·95	+0·24	17	+ 7	31	+12
Western																		
6. SCOTLAND, WEST	55	12	*	*	*	*	1	− 14	41	+ 22	4	− 1	2·22	+0·87	8	0	15	0
7. ENGLAND, N.W.	56	15	*	*	*	*	5	− 10	31	+ 12	6	+ 1	1·37	+0·47	8	+ 1	16	+ 1
8. ENGLAND, S.W.	53	24	*	*	*	*	11	− 13	26	+ 11	5	0	1·51	+0·35	10	− 1	18	− 2
9. IRELAND, NORTH	56	20	*	*	*	*	8	− 7	34	+ 14	6	0	0·84	−0·07	5	− 4	10	− 9
10. IRELAND, SOUTH	56	20	*	*	*	*	11	− 14	29	+ 14	6	+ 1	1·03	+0·02	9	− 3	16	− 5
11. ENGLAND CHANNEL	54	34	*	*	*	*	22	− 15	7	+ 4	7	+ 2	1·13	+0·07	11	− 3	18	− 5

THE YEAR.—Aggregates, &c., for the Period of 49 Weeks, January 3rd to December 11th, 1909.

0. SCOTLAND, NORTH	72	12	*	*	*	*	1872	−216	772	+ 70	234	+ 3	42·11	−6·44	1141	+ 44	27	+ 1
Eastern																		
1. SCOTLAND, EAST	80	0	*	*	*	*	2048	−284	969	+163	195	+ 4	31·22	+2·31	1303	− 8	31	0
2. ENGLAND, N.E.	85	14	*	*	*	*	2540	− 77	763	+177	180	+ 6	25·32	+2·02	1377	− 45	32	− 1
3. ENGLAND, EAST	85	12	*	*	*	*	2849	−172	689	+ 38	188	+20	24·11	+1·79	1586	+ 38	37	+ 1
4. MIDLAND COUNTIES	86	8	*	*	*	*	2755	−178	841	+159	177	+11	25·46	+0·74	1420	+ 42	33	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	2989	−297	616	+147	172	+11	30·00	+4·69	1709	+142	40	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2352	−197	686	+160	188	−12	44·51	−0·20	1401	+ 60	33	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2567	−223	629	+162	189	+ 4	34·65	+1·98	1483	+121	35	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2882	−255	506	+139	186	+ 2	34·44	−1·30	1663	+132	39	+ 3
9. IRELAND, NORTH	78	13	*	*	*	*	2549	−115	506	+ 70	220	+ 2	33·83 §	−1·95	1263	+ 7	30	0
10. IRELAND, SOUTH	81	15	*	*	*	*	2985	−101	426	+ 92	207	+13	32·40	−4·89	1472	+ 56	35	+ 1
11. ENGLAND CHANNEL	84	25	*	*	*	*	3628	− 72	180	+ 64	176	−21	28·85	−1·37	1946	+ 88	46	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding values for Reports Nos. 45, 46, 47 and 48 slightly altered owing to the receipt of further information.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ⚓ is supplied by the Royal Meteorological Society, and that for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

DISTRICTS.		NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	NAMES OF STATIONS.
			°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	a, Islands.	*p Balta Sound* S	*49*	*10th*	*22*	*11th*	*40·8*	*33·5*	*37·3*	—	*0*	*33*	*6*	*1·76*	—	*4·5*	—	*11*	—	*Balta Sound.*
		a Sumburgh Head ..	51	9th	28	11th	42·7	31·6	37·4	- 3·9	2	39	7	1·59	+ 0·59	7·1	+ 1·5	16	+ 3	Deerness.
		a Stornoway	53	9th	28	8th	44·0	33·7	39·1	- 2·0	6	32	7	1·84	+ 0·47	9·2	+ 2·1	20	+ 5	Stornoway.
		a Castlebay, Barra Isd.	*52*	*9th*	*32*	*5, 6, 7th*	*46·1*	*36·7*	*41·6*	- *1·7*	*11*	*23*	*6*	*1·98*	—	*7·6*	—	*16*	—	*Castlebay.*
		a Wick	50	10th	25	7th	41·9	30·4	36·4	- 3·8	0	39	5	0·73	+ 0·07	*	*	*	*	*
	b, Mainland.	*p* Strathpeffer	54	10th	21	7th	42·4	30·7	36·8	- 1·9	1	42	4	0·69	- 0·11	9·8	+ 3·1	21	+ 7	Strathpeffer.
		p Glencarron .. S	52	10th	17	6th	39·2	29·0	34·3	- 4·4	0	51	6	1·83	- 0·40	*	*	*	*	*
		p Fort Augustus S	51	10th	16	7th	38·9	29·8	34·5	- 5·2	0	53	5	1·43	+ 0·26	7·8	+ 5·9	17	+13	Fort Augustus.
		p Fort William S	51	10th	18	7th	38·9	29·3	34·3	- 7·1	0	54	5	3·46	+ 1·36	*	*	*	*	*
1. SCOTLAND E.		*p* Gordon Castle S	55	10th	24	7th	43·1	31·3	37·4	- 2·5	3	40	3	0·59	+ 0·03	*15·7*	—	*33*	—	*Gordon Castle.*
		a Nairn	54	9th, 10th	20	7th	42·3	29·7	36·3	- 2·8	1	45	5	0·90	+ 0·42	17·8	—	38	—	Nairn.
		a Aberdeen	54	10th	22	8th	41·9	29·7	36·0	- 4·0	0	42	3	1·83	+ 1·16	17·1	+ 7·2	36	+15	Aberdeen.
		a Balmoral	53	10th	0	7th	39·3	29·4	30·2	- 6·0	0	83	2	0·75	- 0·05	14·7	—	31	—	Crathes S.
		p Crieff .. .. S	51	10th	18	7th	41·1	29·3	35·4	- 3·8	0	46	4	1·21	+ 0·23	17·0	—	35	—	Balruddery
		a Leith	56	10th	23	6, 7, 8th	42·6	30·0	36·6	- 4·5	2	45	3	0·74	+ 0·30	7·8	+ 2·1	16	+ 4	Edinburgh.
		a West Linton .. S	50	10th	6	8th	37·0	19·0	28·4	- 9·7	0	95	4	1·55	—	*13·1*	—	*27*	—	*West Linton.*
		p Marchmont .. S	51	11th	19	6th	41·0	29·9	35·7	- 2·9	0	44	3	0·56	- 0·06	11·7	+ 3·3	24	+ 7	Marchmont.
2. ENGLAND, N.E.	a, North.	*a* Alnwick Castle ..	53	10th	21	6th, 7th	43·2	29·9	36·8	- 3·6	3	45	4	0·50	- 0·17	10·7	—	21	—	Cockle Park.
		a Shields	54	10th	25	6th	44·9	30·3	37·9	- 3·2	8	45	5	1·56	+ 1·12	*4·6*	- *1·0*	*9*	- *2*	*Newcastle.*
		p Durham	54	10th	21	6th	42·0	31·5	37·0	- 2·2	0	35	4	1·08	+ 0·63	10·8	+ 0·8	21	+ 2	Durham.
		p Rounton .. M	51	10th, 11th	21	6th	41·9	30·9	36·6	- 2·6	0	38	5	0·96	+ 0·55	*	*	*	*	*
		p Scarborough.. M	52	10th	29	7th, 8th	45·0	33·3	39·4	- 2·1	8	34	5	1·33	+ 0·80	10·4	—	20	—	Scarborough.
		p York	51	10th, 11th	26	6th	42·0	32·6	37·5	- 3·0	0	32	6	1·11	+ 0·67	9·5	+ 3·2	18	+ 6	York.
	b, South.	*a* Spurn Head	48	10th	30	7th, 8th	43·0	34·0	38·7	- 3·1	3	30	6	0·87	+ 0·46	*	*	*	*	*
		a Lincoln	54	11th	27	5th, 7th	43·6	31·3	37·7	- 2·3	4	40	5	1·13	+ 0·70	11·1	—	21	—	Skegness.
		a Fulbeck	51	10th	28	8th, 9th	41·9	31·9	37·1	- 2·0	0	34	5	0·74	+ 0·31	10·6	—	20	—	Rauceby.
3. ENGLAND, E.	a, North.	*p* Cromer	47	10th, 11th	29	5th	42·6	33·3	38·1	- 1·4	2	32	7	1·04	—	15·8	—	30	—	Cromer.
		p Hillington .. M	48	10th, 11th	24	9th	40·7	31·1	36·1	- 3·4	0	41	6	1·25	+ 0·70	9·4	- 0·6	17	- 1	Hillington.
		a Yarmouth	47	10th	30	5th, 10th	42·6	32·9	37·9	- 3·0	2	33	7	1·03	+ 0·53	14·5	—	27	—	Yarmouth.
		a Norwich	46	10th, 11th	28	9th	41·5	31·6	36·8	- 3·4	0	36	6	1·48	—	*	*	*	*	*
		p Geldeston	47	10th	29	9th	42·8	32·8	38·0	- 3·0	2	34	7	1·17	+ 0·68	13·6	+ 1·9	25	+ 4	Geldeston.
	b, South.	*p* Cambridge	49	10th	25	9th	42·4	31·9	37·4	- 3·0	1	37	6	0·37	- 0·02	14·3	+ 4·3	27	+ 8	Cambridge.
		a Felixstowe	*45*	*10th*	*31*	*9th*	*41·4*	*33·4*	*37·6*	- *4·0*	*0*	*31*	*5*	*0·74*	—	*17·7*	—	*33*	—	*Felixstowe.*
		a Clacton-on-Sea ..	44	5, 10, 11th	30	9th, 10th	41·6	32·6	37·3	- 4·2	0	33	6	0·64	—	18·3	—	33	—	Clacton.
		a Rothamsted ..	49	10th	27	9th	43·2	31·3	37·5	- 2·7	3	40	7	0·51	- 0·06	15·2	+ 4·8	28	+ 9	Rothamsted.
		a Shoeburyness ..	*45*	*10th*	*28*	*7th*	*42·0*	*33·7*	*38·0*	- *4·0*	*0*	*28*	*5*	*0·52*	+ *0·16*	*20·8*	—	*33*	—	*Southend.*
		p Tottenham	51	10th	30	9th	42·0	35·6	38·9	- 2·3	0	22	4	0·26	—	8·6	—	16	—	Tottenham.
4. MIDLAND COUNTIES.	a, East.	*a* Harrogate	51	10th, 11th	23	6th	40·5	32·1	36·5	- 2·8	0	39	6	0·70	+ 0·10	10·2	—	20	—	Harrogate.
		a Bawtry	52	10th	25	6th	43·0	32·3	37·9	- 1·8	3	36	4	0·82	+ 0·38	8·8	+ 1·0	17	+ 2	Worksop.
		p Buxton .. M	*49*	*11th*	*22*	*8th*	*39·1*	*30·3*	*34·9*	- *3·0*	*0*	*50*	*6*	*1·19*	+ *0·06*	*10·0*	—	*19*	—	*Buxton.*
		a Nottingham ..	51	10th	27	7th	43·3	31·1	37·4	- 2·8	4	40	4	0·39	- 0·07	2·1	—	4	—	Nottingham.
		p Birmingham, Edgbsn	49	10th, 11th	30	5th	42·6	33·9	38·4	- 1·6	2	30	6	0·91	+ 0·37	6·3	—	12	—	Birmingham.
		a Raunds .. M	51	10th	26	9th	42·6	29·7	36·4	- 3·5	2	45	4	0·51	—	*	*	*	*	*
		a Oxford	51	10th	30	9th, 10th	44·6	33·3	39·2	- 1·5	7	34	4	0·94	+ 0·44	15·0	+ 5·0	27	+ 9	Oxford.
	b, West.	*a* Cheadle .. M	49	10th	27	9th	40·7	30·3	35·7	- 3·4	0	44	5	1·00	+ 0·35	8·7	—	16	—	Sheffield.
		p Shrewsbury	53	10th	28	8th	44·5	34·4	39·7	- 2·4	7	30	5	1·10	—	*	*	*	*	*
		a Hereford .. M	50	9th, 10th	26	5th	43·5	32·2	38·1	- 2·4	4	37	7	0·60	+ 0·06	*	*	*	*	*
		a Cirencester	50	10th, 11th	23	9th	43·5	29·9	37·0	- 2·5	4	46	5	1·04	+ 0·41	6·3	- 3·7	12	- 7	Cirencester.
		a Bath	52	10th	24	9th	46·3	29·4	38·2	- 3·4	12	50	5	0·75	+ 0·06	17·4	—	32	—	Bath.
5. ENGLAND, S.E... ..		*p* Kew	49	10th	26	9th	42·6	33·9	38·4	- 3·0	2	30	5	0·34	- 0·13	*19·8*	—	*36*	—	*Ramsgate.*
		a Marlborough ..	50	10th	24	9th	44·0	29·9	37·2	- 2·7	6	46	5	1·39	+ 0·71	13·3	+ 3·5	24	+ 6	Kew.
		a Margate	46	10th	31	5th	42·7	33·9	38·5	- 3·8	2	30	5	0·84	+ 0·36	13·5	+ 5·3	25	+10	Marlborough.
		a Wisley, Surrey ..	48	10th	30	9th	43·6	33·4	38·7	- 3·1	4	33	5	0·43	—	15·8	+ 4·5	29	+ 8	Margate.
		a Swarraton .. M	48	10th	20	9th	43·4	28·7	36·3	- 4·2	4	49	5	1·16	+ 0·46	18·5	—	34	—	Wisley.
		a Tunbridge Wells M	45	10th, 11th	28	9th	41·6	31·0	36·5	- 4·4	0	39	5	0·77	+ 0·07	20·5	—	37	—	Worthing.
		a Dungeness	47	5th, 10th	26	10th	44·3	33·1	38·9	- 4·3	6	34	4	0·82	+ 0·29	20·4	+ 9·1	37	+17	Tunbridge Wells.
		p Hastings	46	10th, 11th	31	9th	44·2	34·7	39·6	- 3·3	6	28	5	1·51	+ 0·85	14·0	—	26	—	Littlestone.
		p Southampton ..	50	10th	27	9th	45·0	34·0	39·7	- 3·0	8	32	5	0·88	+ 0·19	*18·2*	+ *4·7*	*33*	+ *8*	*Hastings.*
		a Ventnor	48	5, 9, 10th	34	8th	45·8	38·1	42·1	- 3·1	17	11	5	1·35	+ 0·63	16·4	+ 5·0	30	+ 9	Southampton.
LONDON		*a Westminster* ..	*49*	*10th*	*28*	*9th, 10th*	*44·1*	*32·3*	*38·4*	- *3·1*	*6*	*37*	*6*	*0·35*	- *0·13*	*9·0*	+ *5·5*	*16*	+*10*	*Westminster.*
		a Greenwich	*48*	*10th*	*29*	*7th, 9th*	*43·4*	*32·7*	*38·3*	- *2·9*	*4*	*35*	*5*	*0·36*	- *0·11*	*16·7*	+ *8·5*	*30*	+*16*	*Greenwich.*
6.	a, SCOTLAND. W. ..	*a* Laudale	55	9th, 10th	25	6th	48·8	36·5	40·3	- 2·2	5	22	3	3·73	+ 1·62	*	*	*	*	*
		a Poltalloch .. S	52	10th	18	7th	42·7	26·3	34·3	- 6·4	2	58	4	2·46	+ 1·21	*	*	*	*	*
		p Glasgow	52	10th, 11th	20	8th	39·9	30·9	35·6	- 5·2	0	45	3	1·48	+ 0·59	0·0	- 3·3	0	- 7	Glasgow.
		p Rothesay .. S	54	10th, 11th	24	7th, 8th	43·0	32·7	28·1	- 3·6	3	35	4	2·60	+ 1·48	*	*	*	*	*
		a Kilmarnock ..	54	10th	12	7th	41·0	27·0	34·3	- 7·0	0	54	3	1·99	—	*4·5*	—	*9*	—	*Kilmarnock.*
		a Colmonell	54	10th	15	8th	45·1	28·2	37·0	- 4·6	9	53	4	1·55	+ 0·37	*	*	*	*	*
		p Dumfries	52	11th	22	8th	40·3	31·6	36·1	- 4·3	0	41	3	2·17	+ 1·27	*9·0*	—	*18*	—	*Dumfries.*
	b, ISLE OF MAN ..	*p* Cally, Gatehouse S	49	10th, 11th	18	8th	41·3	27·9	34·9	- 5·5	0	50	4	2·12	+ 0·89	*	*	*	*	*
		p Douglas	51	10th	31	5, 7, 8th	44·8	36·9	41·0	- 2·3	8	21	4	1·92	+ 0·82	15·0	+ 4·5	29	+ 9	Douglas.
7.	a, ENGLAND, N.W...	*p* Aspatria	52	11th	20	8th	42·0	31·2	36·8	- 3·6	0	36	5	2·05	+ 1·12	11·7	—	22	—	Hoylake.
		p Newton Rigg ..	51	10th	15	8th	40·1	26·5	33·6	- 5·3	0	59	4	1·35	+ 0·49	6·4	—	13	—	Aspatria.
		p Stonyhurst	50	11th	23	8th	40·8	31·9	36·5	- 4·1	0	39	7	1·68	+ 0·67	3·8	- 4·7	8	- 9	Newton Rigg.
		p Blackpool .. M	51	10th, 11th	26	8th	43·4	33·8	38·8	- 2·8	4	31	4	1·13	+ 0·40	6·1	- 0·9	12	- 2	Stonyhurst.
		p M nch'ster, Prestwich	50	10th, 11th	19	8th	40·9	29·7	35·5	- 5·2	0	46	4	1·51	+ 0·41	11·4	+ 4·1	22	+ 8	Blackpool.
		a Liverpool (Bidston)	54	10th	33	6th, 7th	45·6	36·4	41·2	- 0·5	10	24	7	1·34	+ 0·71	*0·6*	- *3·9*	*1*	- *7*	*Prestwich.*
		a Hawarden Bridge ..	56	10th	31	8th	48·2	35·9	42·3	- 0·5	28	17	7	1·18	+ 0·68	*9·8*	+ *2·2*	*19*	+ *4*	*Liverpool.*
	b, NORTH WALES ..	*p* Llandudno .. M	55	10th, 11th	34	6th	47·1	38·8	43·1	- 1·0	21	9	6	0·66	0·00	*10·7*	—	*20*	—	*Southport.*
		a Holyhead	52	9th, 10th	36	7th	47·0	39·9	43·6	- 1·0	20	6	5	1·41	+ 0·50	11·1	+ 1·8	21	+ 3	*Rhyl.*
		p Bettws-y-Coed ..	53	10th, 11th	27	8th	44·3	36·1	40·4	- 3·3	6	24	6	1·42	—	8·7	—	16	—	Llandudno.
8.	a, SOUTH WALES ..	*a* Llangammarch Wells	52	10th	25	5th	44·2	31·7	38·2	- 1·6	6	39	5	0·88	—	7·4	—	14	—	Aberdovey.
		a Pembroke	52	10th	34	5th	47·9	39·1	43·7	- 2·3	24	8	5	1·89	+ 0·99	9·7	—	18	—	Bettws-y-Coed.
		a Cardiff	50	10th	29	9th	44·9	34·8	40·1	- 1·4	8	29	6	1·66	+ 0·66	8·6	—	16	—	Aberystwyth.
	b, ENGLAND, S.W. ..	*a* Clifton	52	10th	29	9th	45·8	33·9	40·1	- 2·5	11	33	5	0·88	+ 0·11	17·4	+ 5·9	32	+11	Llangammarch Wells.
		a Shaftesbury .. M	48	9th, 10th	29	8th	42·9	33·7	38·5	- 2·5	3	31	5	0·74	- 0·06	18·0	—	33	—	Pembroke.
		a Arlington	51	10th	30	5th, 9th	45·3	34·4	40·1	- 2·2	9	31	6	3·12	+ 1·76	*14·5*	+ *3·0*	*26*	+ *6*	*Tenby.*
		a Cullompton .. M	52	10th	24	9th	46·6	30·6	38·9	- 3·5	18	45	5	1·31	+ 0·47	*15·0*	—	*27*	—	*Cardiff.*
		a Portland Bill ..	50	9, 10, 11th	37	5th	47·9	41·6	44·9	- 0·2	22	1	5	0·70	—	*	*	*	*	*
		p Plymouth	52	10th, 11th	29	5th, 9th	46·4	35·7	41·3	- 3·8	12	27	6	2·42	+ 1·47	11·0	+ 1·3	20	+ 2	Newquay.
		p Falmouth	53	11th	34	5th	46·7	40·0	43·5	- 2·8	19	6	6	1·50	+ 0·25	*21·0*	—	*38*	—	*Cullompton.*
																6·5	- 5·6	12	-10	*Weymouth.*
																9·3	- 4·1	17	- 7	Plymouth.
																17·2	+ *4·7*	*31*	+ 8	Falmouth.
9. IRELAND, N.	a, West.	*a* Malin Head	52	10th, 11th	31	6th	45·7	36·9	41·5	- 1·7	10	22	5	0·92	+ 0·17	*	*	*	*	*Torquay.*
		a Blacksod Point ..	55	9th	30	6th, 7th	46·7	36·9	42·0	- 2·8	13	14	7	1·84	+ 0·54	*	*	*	*	*
		p Markree Castle ..	55	10th	22	7th	44·4	32·4	38·6	- 3·1	7	37	6	0·54	- 0·47	5·3	- 3·7	10	- 7	*
		a Birr Castle	55	9, 10, 11th	29	7th	44·9	30·7	38·1	- 3·6	8	34	6	0·82	+ 0·10	*7·6*	- *4·1*	*14*	- *8*	Markree Castle.
	b, East.	*p* Armagh	55	10th	23	7th	42·0	31·7	37·1	- 4·4	0	51	4	0·30	- 0·36	5·3	- 4·4	10	- 9	*Birr Castle.*
		a Donaghadee	56	10th	28	6th, 9th	46·4	33·0	40·0	- 2·8	12	57	5	0·60	- 0·10	*	*	*	*	Armagh.
10. IRELAND, S.	a, East.	*p* Dublin, City.. ..	56	10th	28	7th	45·1	36·4	40·9	- 3·2	9	23	5	1·39	+ 0·86	7·9	- 4·9	15	- 9	*
		a Kilkenny	55	10th	22	7th	44·6	31·6	38·4	- 3·8	7	40	7	0·56	- 0·18	*	*	*	*	*
		a Waterford	52	9th, 10th	25	7th	47·3	33·1	40·5	- 2·9	15	37	4	0·61	- 0·34	*	*	*	*	*
		a Birr Castle	55	9, 10, 11th	29	7th	44·9	30·7	38·1	- 3·6	8	44	6	0·82	+ 0·10	7·6	- 4·1	14	- 8	Phœnix Park.
		a Foynes	55	10th, 11th	29	6th, 7th	45·2	37·2	41·4	- 2·8	9	20	7	0·75	- 0·25	*	*	*	*	*
	b, West.	*a* Cahir .. .. M	54	10th	26	6th	45·0	36·7	41·0	- 2·2	8	22	5	0·89	—	*	*	*	*	*
		a Killarney	55	9th, 10th	29	6, 7, 8th	47·3	35·0	41·4	- 3·1	15	30	7	1·26	- 0·27	*	*	*	*	*
		a Valencia	55	10th	30	8th	48·4	37·0	42·9	- 3·6	27	14	7	1·80	+ 0·40	9·0	- 2·3	17	- 4	Birr Castle.
		a Roche's Point ..	52	10th	33	5, 7, 8th	46·1	37·6	42·0	- 3·6	11	12	7	1·23	+ 0·10	10·7	—	20	—	Valencia.
11. ENGLISH CHANNEL..		*a* Scilly, St. Mary's ..	54	11th	40	7, 8, 9th	48·9	41·3	45·3	- 3·3	26	2	7	1·18	+ 0·32	9·0	- 4·3	16	- 8	Ballinacurra.
		a Jersey, St. Aubins ..	50	9th	34	9th, 10th	47·3	37·4	42·6	- 3·7	24	13	7	1·38	+ 0·48	13·8	- 1·6	24	- 3	Scilly.
		a Guernsey	50	9th	36	9th	46·7	39·7	43·3	- 3·5	19	6	6	0·82	- 0·18	8·7	- 2·3	15	- 4	St. Heliers.
																				Guernsey.

Additional Sunshine Totals for the week: *Brighton, 18·9 hrs.* (+ *6·7 hrs.*), *34* % (+*12* %); *Bournemouth, 23·8 hrs., 43* %; *Bognor, 20·0 hrs., 36* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound ..	—	—	37·0	—
	— — ..				
	— — ..				
1.	Aberdeen	—	—	—	40·9
	Crathes	5	15	34·8	40·0
	Balmoral	5	0	—	—
	West Linton	5	4	—	—
	Marchmont ..	5	13	35·1	—
2.	Cockle Park	5	18	34·6	39·9
	Durham	4	18	—	—
	York	—	—	38·9	44·1
	Hull	5	20	38·0	44·4
	Lincoln	—	—	36·9	43·5
	Rauceby	6	20	38·2	45·2
3.	Norwich	6	21	—	—
	Yarmouth	—	—	38·6	45·0
	Lowestoft	4	25	38·5	44·7
	Cambridge	6	15	37·7	44·6
	Clacton-on-Sea ..	6	22	41·0	46·5
	Southend	6	23	39·7	—
	Tottenham	6	23	—	45·8
4.	Harrogate	6	16	38·4	41·3
	Huddersfield ..	4	17	37·3	42·8
	Buxton	5	9	37·3	43·6
	Sheffield	6	17	37·7	44·2
	Nottingham	6	19	36·3	42·0
	Birmingham	5	25	39·5	45·8
	Oxford	6	23	—	—
	Hereford	6	16	—	—
	Cirencester	6	20	—	—
5.	Margate	4	29	40·6	44·8
	Greenwich	6	22	—	—
	Westminster ..	6	22	—	—
	Kew	6	17	38·7	45·9
	Canterbury	6	25	39·4	42·9
	Tunbridge Wells ..	6	19	37·5	—
	Wisley	6	21	38·5	44·6
	Worthing	6	23	39·0	46·1
	Portsmouth	5	20	40·0	46·7
6.	Glasgow	5	16	—	—
	Rothesay	—	—	—	41·9
	Colmonell	5	14	—	—
	Dumfries	5	18	35·3	40·6
	Douglas	5	24	—	—
7.	Aspatria	5	17	—	—
	Newton Rigg ..	5	5	36·9	41·6
	Burnley	5	10	36·5	42·6
	Southport	5	16	35·7	41·1
	Manchester City ..	5	17	37·4	44·1
	Bettws-y-Coed ..	3	25	39·1	44·1
8.	Llangammarch Wells	4	20	40·0	46·0
	Cardiff	5	20	39·5	45·4
	Clifton	5	24	—	—
	Bath	—	—	40.5	46·0
	Plymouth	4	21	41·5	—
9.	Armagh	5	19	39·4	44·1
	Markree	5	17	40·1	45·5
10.	Dublin, Trin. Coll. ..	5	22	39·3	44·5
11.	Guernsey, Brooklyn	2	25	43·0	48·8

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	45	44	44·4
	Kirkwall	41	40	40·4
	Wick	48	44	46·4
SCOTLAND, E.	Cromarty	47	39	41·2
	Pennan Bay	42	38	40·6
	Aberdeen, Cove Bay ..	45	43	43·3
ENGLAND, N.E.	Burnmouth, Berwick ..	42	39	40·2
	Scarborough	45	33	40·1
ENGLAND, E.	Shipwash Lightship ..	45	42	43·6
	Margate‡	45	40	42·6
ENGLAND, S.E. .	Eastbourne‡	47	43	44·1
SCOTLAND, W.	Lamlash	47	45	46·1
	Ballantrae	45	44	44·4
ENGLAND, N.W.	Port Erin	49	46	48·0
ENGLAND, S.W.	Newquay	49	47	47·9
	Plymouth‡	48	47	48·0
	Salcombe	48	45	46·6
IRELAND, N.W.	Sheephaven	46	45	45·7
	Teelin	43	40	42·0
IRELAND, S.W.	Cleggan	47	43	45·1
	Seafield	50	46	49·0
IRELAND, E. ..	.. ..			

‡ Only one observation each day.

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1909.	Station.	Wind Direction (in Degrees, E=90°, S=180°, W=270°, N=360°) and Velocity, Metres per Second.																	
			Ground Level.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres	4,000 metres.	4,500 metres.	5,000 metres	5,500 metres	6,000 metres	6,500 metres	7,000 metres	7,500 metres.	8,000 metres	8,500. metres	9,000 metres.
1	Dec. 6th, 1.57 p.m. to 2.30 p.m.	Howard Estate, Glossop, 335 m.	125°, 2	134°, 3	214°, 6															
2	Dec. 7th, 10.15 a.m. to 10.19 a.m.	Howard Estate, Glossop, 335 m.	22°, 2	344°, 2																
3	Dec. 7th, 2.11 p.m. to 2.15 p.m.	Howard Estate, Glossop, 335 m.	337°, 2	293°, 5																
4	Dec. 8th, 2.2 p.m. to 2.8 p.m.	Howard Estate, Glossop, 335 m.	240°, 3	289°, 8	294°, 8															
5	Dec. 8th, 3.5 p.m.	Pyrton Hill, Oxon, 150 m.	270,° 4	315°, 10	325°, 8	315°, 11	310°, 11	295°, 7	280°, 5	285°, 7	290°, 8	300°, 10	300°, 9	310°, 12	315°, 14	317°, 21	325°, 24	335°, 37	340°, 45		
6	Dec. 9th, 10.59 a.m. to 11.5 a.m.	Howard Estate, Glossop, 335 m.	169°, 6	200°, 8	221°, 6															
7	Dec. 9th, 2.30 p.m.	Pyrton Hill, Oxon, 150 m.	180,° 6	230°, 13	225°, 14	245°, 11	255°, 11	265°, 11	280°, 8	290°, 8	300°, 12	305°, 13	320°, 13	330°, 13	325°, 18						
8	Dec. 9th, 3.35 p.m.	Pyrton Hill, Oxon, 150 m.	200°, 9	220°, 16	225°, 14	250°, 14	242°, 11	250°, 12	267°, 8	305°, 8	300°, 9	305°, 16	310°, 14	325°, 16	330°, 15	335°, 22					

NOTES.—**1.** Pilot balloon. Fair to overcast, misty, light breeze. Clouds, Cu.-Ni. and Cu.
2. Pilot balloon. Fair to fine, overcast later. Light air to light breeze. Clouds, Cu. and Cu.-Ni.
3. Pilot balloon. Fair to overcast. Light air to light breeze. Clouds, Cu. and Cu.-Ni.
4. Pilot balloon. Fair to overcast. Light breeze. Clouds, Cu.-Ni. and Ni.
5. *Ballons-Sondes.* Rate of ascent 650 ft. per min. assumed. One theodolite.
6. Pilot balloon. Fair to overcast. Gentle to moderate breeze. Clouds, Cu.-Ni. and Ni.
7. Pilot balloon. Rate of ascent 530 ft. per min. assumed. One theodolite. Balloon disappeared suddenly in Cl.-Cu.
8. *Ballon-Sondes.* Rate of ascent 620 ft. per min. assumed. One theodolite.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

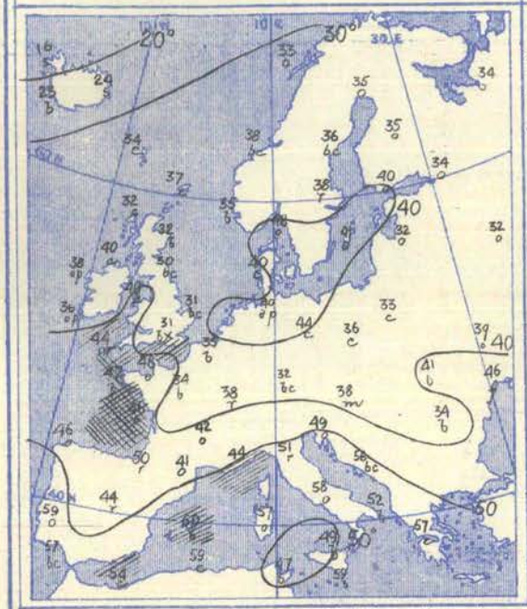
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

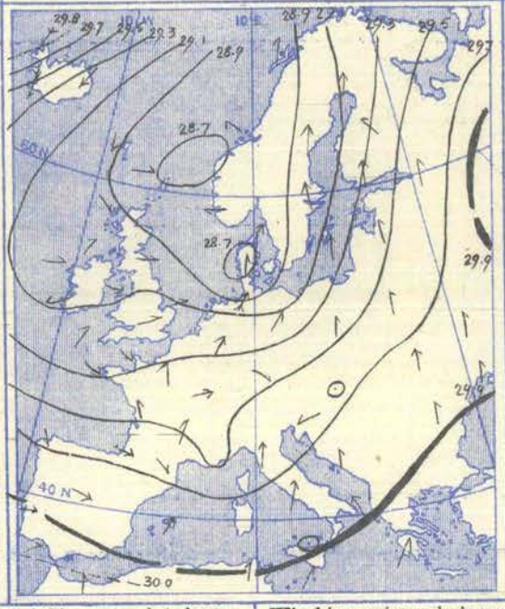
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 5th December, 1909.

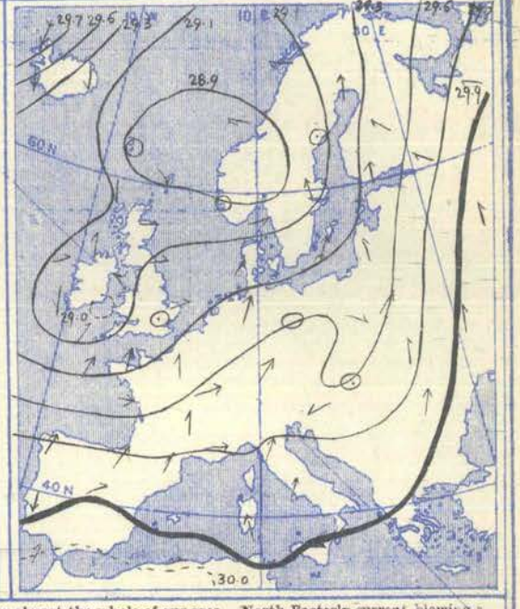
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine and bright over the greater part of this country, but showery in some western localities, and snow falling at Wick. Variable on the Continent, fair in many places, but rainy in several parts of France, central Spain, and northern Italy, and also in Scandinavia. Snow falling very generally in Iceland. More or less precipitation later over the major portion of our area; not heavy generally, but considerable in some French districts, and more than an inch at Florence. Thunder and lightning at Dungeness, and thunder at Castlebay.

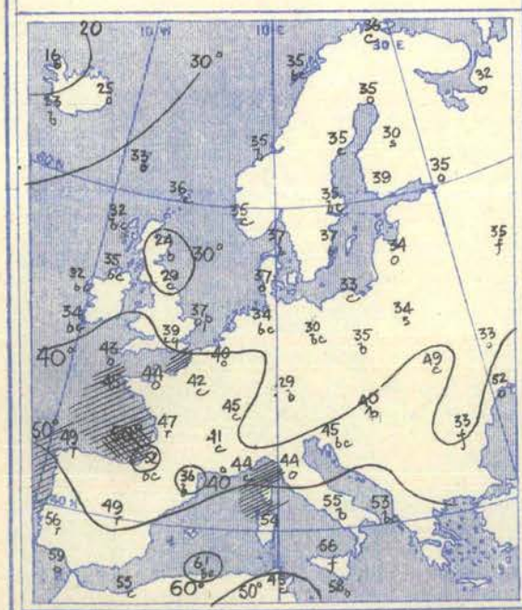
Temperature fallen over our Islands and their immediate vicinity. Morning readings ranging from about 60° at a few stations in the extreme south to below 40° over our area as a whole, and to below 32° in places. Maxima during day only 36° in the north and east of Scotland and 38° at Nottingham; below 40° over a large portion of central Europe, only 41° at Turin, and 50° at Madrid, but above 65° at some places in the far south, and as high as 70° at Nemours and Palermo. Hard frost at night in Scotland.

Wind in morning cyclonic over almost the whole of our area. North-Easterly current blowing a fresh to whole gale in Iceland, a gale from West North-West prevailing at Biarritz, and from South-West at the mouth of the Elbe. A fresh or strong breeze blowing in some other localities, and a high wind at Palma. A feeble cyclonic movement setting in later in the south-west of these Islands. Wind decreasing somewhat in force generally, but gale continuing in Iceland, and Southerly current increasing to a gale at Wisby.

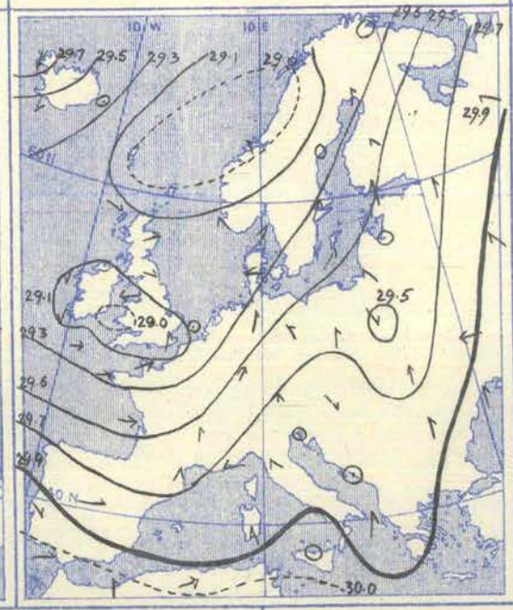
Barometer in morning below 28·7 ins. in two minima situated to the eastward and northward of the North Sea. Above 29·8 ins. in the north-west of Iceland, and above 29·9 ins. over the northern half of Russia. Pressure increasing later over the North Sea region and the minima becoming merged. A feeble low pressure system appearing over the St. George's Channel. Some local minima on the Continent moving eastward. Gradient continuing steep in Iceland.

Monday, 6th December, 1909.

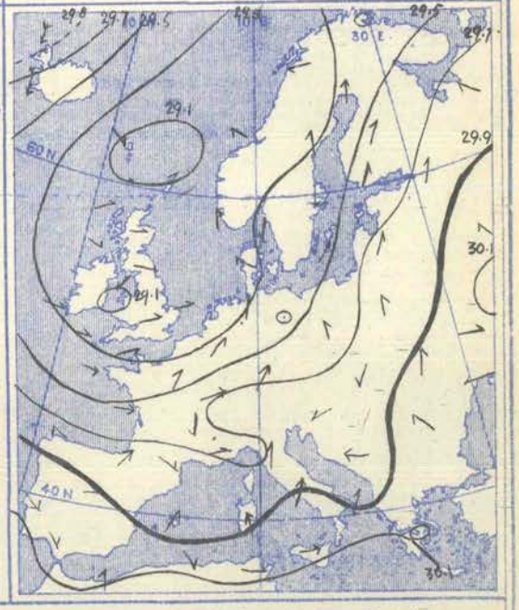
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled over all the western and north-western countries, with rain in several localities, and snow at some northern stations. Fair to fine generally over the south of our area, but overcast in the east, and snowy at Warsaw. Rain, sleet, or snow falling later in Ireland and England, and also over large districts on the Continent; measurements more than 0·5 in. at some of our own stations, and more than an inch in the north of France. A thunderstorm occurring at Dungeness, and lightning at Roche's Point and Clacton-on-Sea.

Temperature fallen at many of our own stations and over the major portion of the Continent. Readings in morning below 32° in the north of this country and at Bath, and also at Munich and Kuopio, but above it generally; above 50° over most of the Mediterranean region, and as high as 61° at Algiers. Thermometer remaining below 32° in Scotland, and below 40° over some parts of England. Maxima very little above 40° in central Europe and the north of Italy, but about 60° at many stations in the far south, 70° at Nemours, and 72° at Algiers.

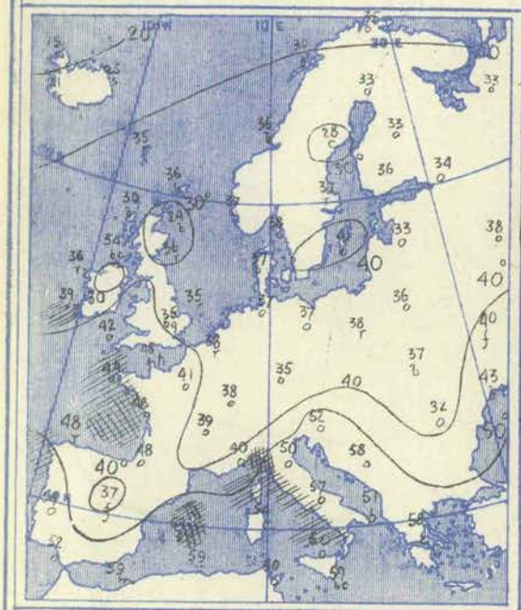
Wind in morning showing several complete or partial cyclonic circulations. Westerly current fresh to high over France and the Bay of Biscay, and blowing a gale at Corunna; little force over our area generally. A strong Northerly gale prevailing in Iceland. No general change later in day, but gale subsiding to a high wind at Corunna.

Barometer in morning below 29·0 ins. in a large shallow depression off the west coast of Norway, and also in a small minimum over the St. George's Channel; below 29·5 ins. in a disturbance over Poland. Gradient irregular, but not steep except in Iceland. Polish depression disappearing by evening, but very little other change beyond a general increase of pressure over the west and north-west of our area.

Tuesday, 7th December, 1909.

Temperature and Weather.

7 a.m.

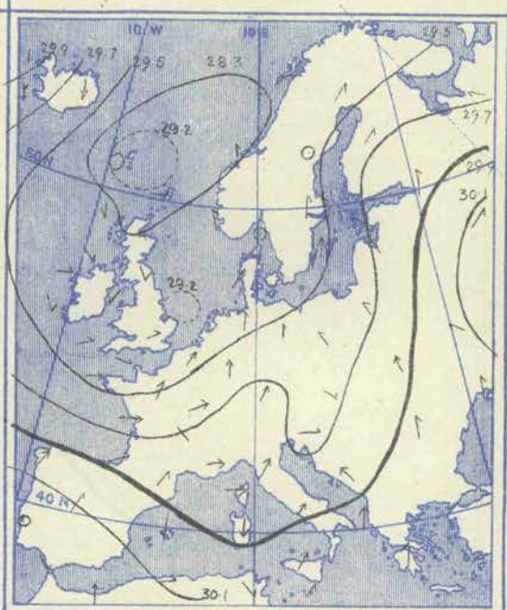


Weather in morning fine and bright in Scotland, the south-east of France, and in a few other localities, but very cloudy or overcast generally, with rain or snow in places, over the northern and central regions of the Continent, and in Ireland, England, and France, and rainy at Corunna and Algiers. Snow falling very generally in Iceland. A certain quantity of precipitation later over the greater part of our area; as much as 1·1 in. at Sanguinaire. A thunderstorm occurring at Nice.

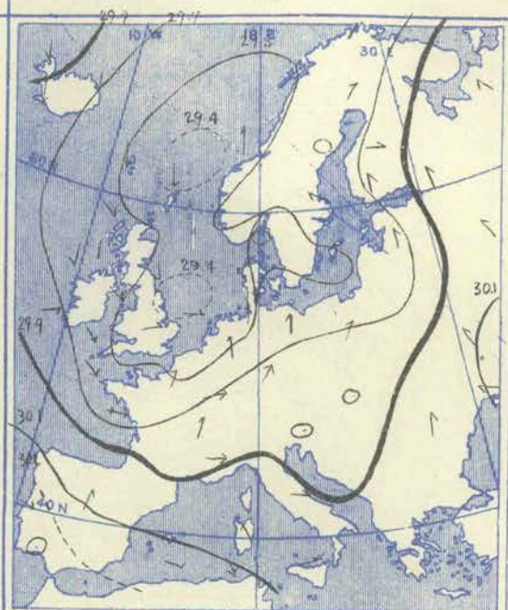
Temperature changed irregularly. Readings in morning below 40° very generally except in the far south, and much below 32° in central Ireland and in Scotland. Thermometer marking 59° on some shores of the Mediterranean. Maxima during day less than 40° over the greater part of the United Kingdom, and not much above that value in the central countries and the east of France; only 50° at Nice. Readings above 60° in the extreme south, and 70° at some stations on the coast of Algeria. Frost at night in central England.

Barometer and Wind.

7 a.m.



6 p.m.



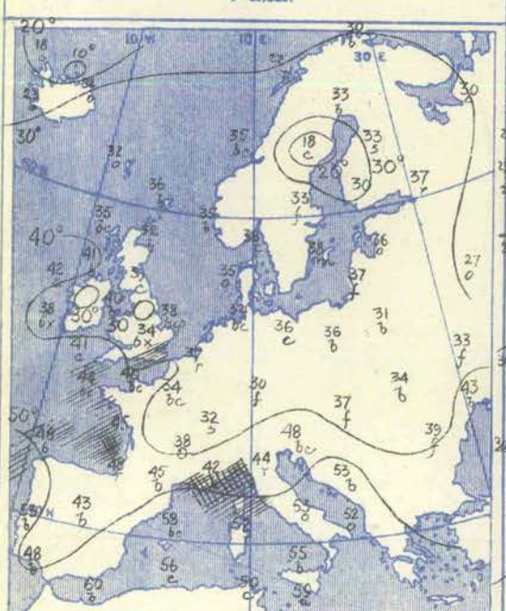
Wind in morning still cyclonic over almost the whole of our area. Northerly current blowing a gale in Iceland, and that from the Westward strong to a gale over the Bay of Biscay. Some fresh to high winds from between West and South-West prevailing on the Mediterranean. Gale from West continuing all day at Rochefort, but Northerly wind subsiding to a moderate to strong breeze in Iceland.

Barometer in morning ranging from above 30·1 ins. in the south of Russia and in the south of Spain to below 29·2 ins. in a minimum off the north of Scotland, and also in a smaller one off the east coast of England. Little modification occurring in the general distribution during day, but a rather decided rise of the barometer taking place over all the western countries, and low pressure systems tending to disperse.

Wednesday, 8th December, 1909.

Temperature and Weather.

7 a.m.

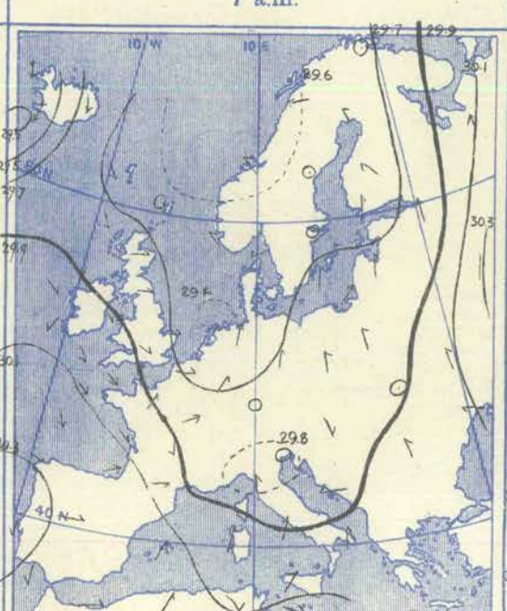


Weather in morning varying a good deal; fair to fine and bright over the greater part of the United Kingdom, rainy in the south-west of France and at several Italian stations, and rain or snow falling over Finland and the adjacent portion of Russia. Cloudy in many other regions, but very fine in places. Slight rain later in the north and west of these Islands, heavier amounts in various Continental districts, and more than an inch at Cape de Garde and Tunis. A thunderstorm at the latter station.

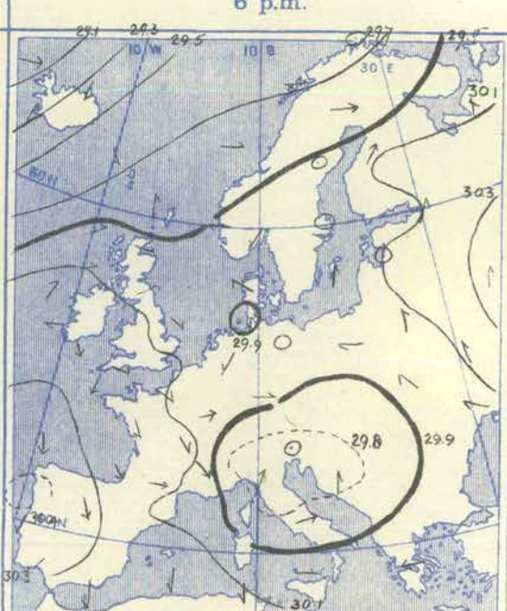
Temperature fallen in most regions. Morning readings ranging from about 32° or a few degrees lower over a considerable part of this country and the mainland of Europe to above 50° on many shores of the Mediterranean, and to 60° at Nemours. Maxima during day about 40° over a large area in central Europe and at several of our own stations, below 50° at many places in the south of France, and only 44° at Turin. Above 60° in the far south of our area; 66° at Cagliari and Oran, and 70° at Tunis. Frost at night in England.

Barometer and Wind.

7 a.m.



6 p.m.

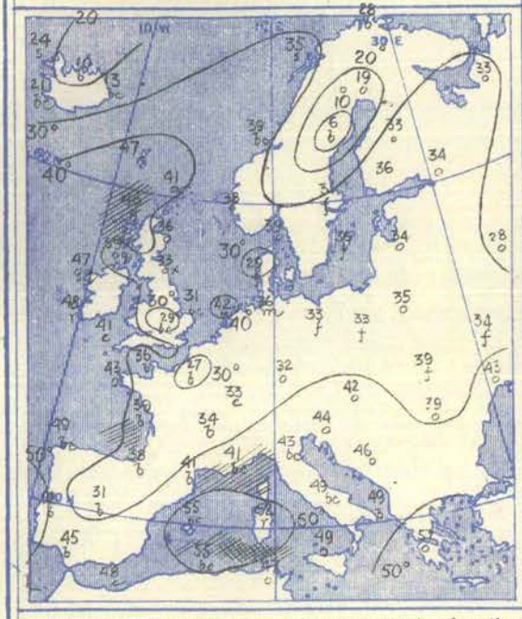


Wind in morning still cyclonic over the whole of our area except the extreme south-west. Light or moderate over these Islands and the greater portion of the Continent, but fresh to high in places over the western half of the Mediterranean, and strong to a strong or whole gale in Iceland. Increasing to a gale from West by evening on the east coast of Corsica, but decreasing to a moderate or fresh breeze in Iceland.

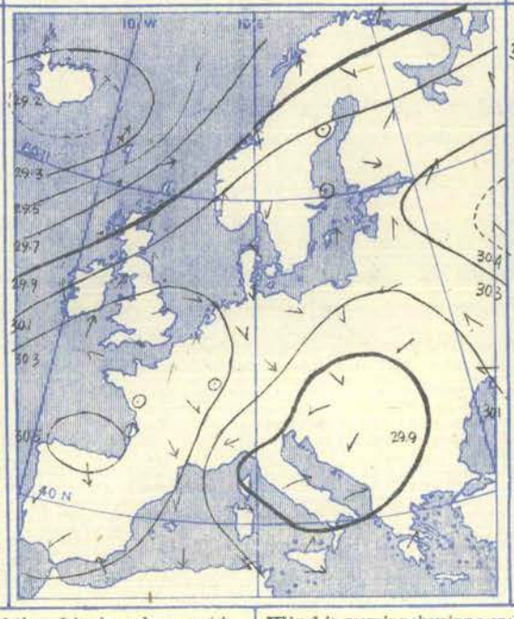
Barometer in morning above 30·3 ins. both in the extreme south-west and east of our area, low in minima of various intensity over the intervening regions, and as low as 29·3 ins. in the south-west of Iceland. No important change in the general distribution occurring during day, but south-western anticyclone extending northward and eastward. Pressure decreasing in Iceland.

Thursday, 9th December, 1909.

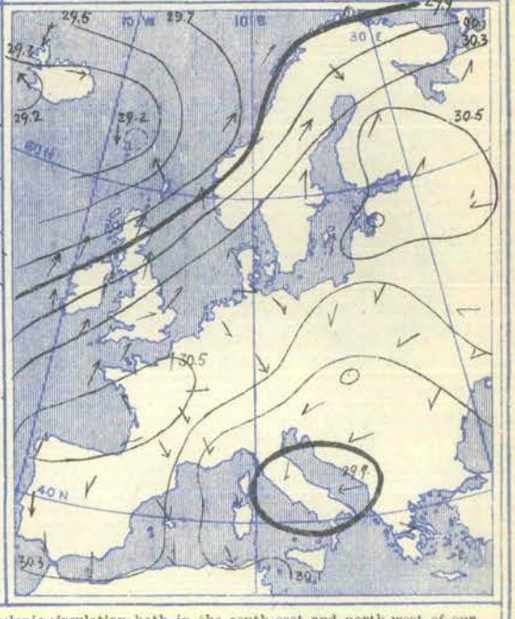
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy in the extreme west and north of these Islands, and overcast in Russia and in some other districts, but fair to fine generally. Rain falling at Cagliari and snow at Bodö. Rain very general over these Islands later, heavy in Scotland and Ireland, and considerable or heavy amounts in a few places over a large area on the Continent. A thunderstorm, with hail, at Cape de Garde.

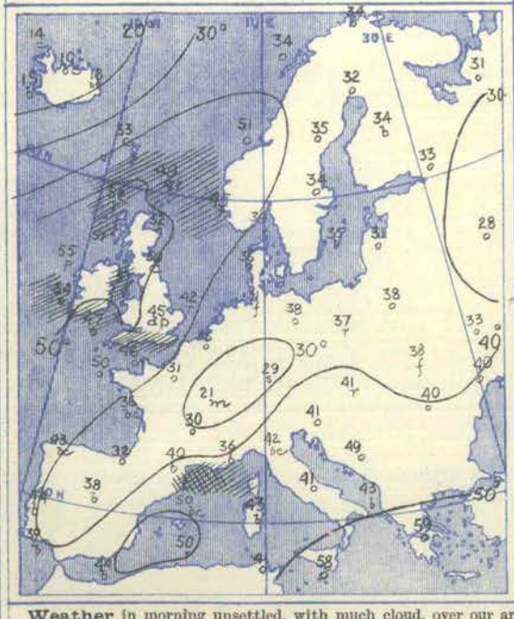
Temperature risen in Ireland, Wales, Scotland, and Norway, fallen in most other regions. Morning readings below 32° in most of England, France, central Spain, and over a large area in the north of the Continent, as low as 6° at Hernösand. Between 55° and 45° at most stations in the south. Maxima during day between 50° and 55° over the west and north of these Islands and also over the greater part of Spain, and above 60° at some Algerian stations, in the south of Italy, and at Athens. Thermometer remaining below 40° at several places in the central countries, as well as at Turin and over a large area in France.

Wind in morning showing a cyclonic circulation both in the south-east and north-west of our area, and an anticyclonic movement over the Bay of Biscay and the Peninsula. Fresh to strong in the west and north of these Islands, and strong to a gale over the Icelandic region. Northerly current strong on some shores of the Mediterranean. Increasing to a gale from North later at Cape de Garde, and from the Southward at Skudesnaes. No change of a general character.

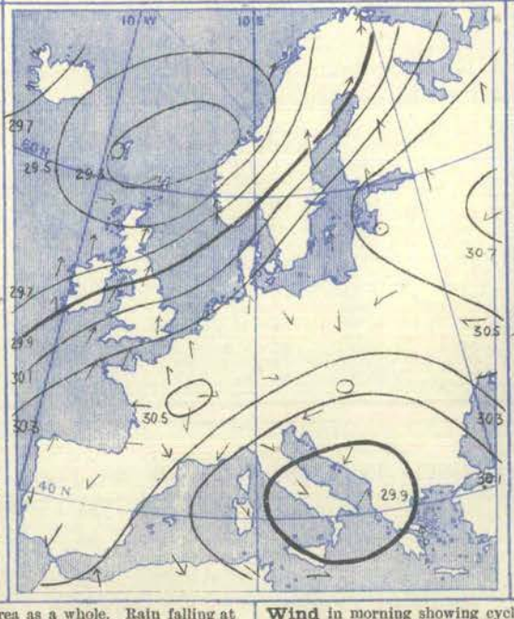
Barometer in morning above 30·5 ins. over the north of Spain, and relatively high in a band extending thence to the Baltic and Russia. Below 29·8 ins. in a depression covering a large area in the south-east of Europe, and below 29·2 ins. in another system having its minimum to the south of Iceland. Scarcely any modification occurring later in the general distribution of pressure. Readings increasing within the high pressure band, and decreasing over the west and north of our Islands and in Norway.

Friday, 10th December, 1909.

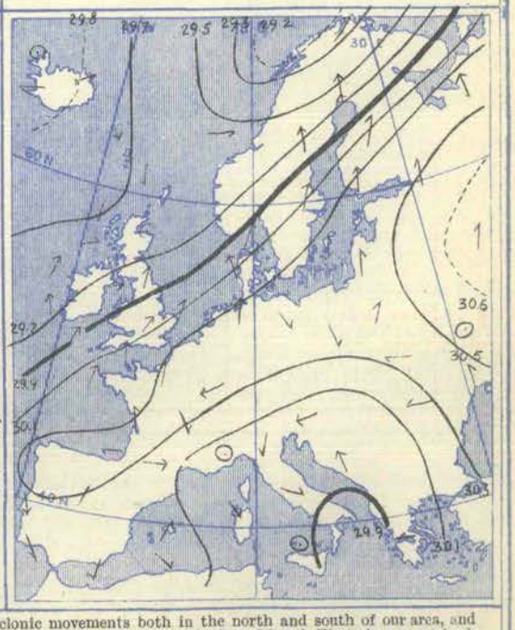
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled, with much cloud, over our area as a whole. Rain falling at many of our own stations and in Poland, and snow at some places further north. Fair to fine on most shores of the Mediterranean, but rain falling at Algiers, and snow at Aumale. Heavy rain in various parts of the United Kingdom later, and also in the south-west of Norway. Slight amounts measured in places elsewhere.

Temperature risen over these Islands and the northern regions of the Continent, fallen in the south. Readings in morning ranging from 59° at Athens and 58° at Malta to about 50° over this country, and to below 32° in various parts of the mainland of Europe. Maxima during day about 55° at some of our western and northern stations, and about 60° at a few places in the extreme south of our area. Thermometer remaining below 40° at many stations in central Europe, and below 35° in the east of France.

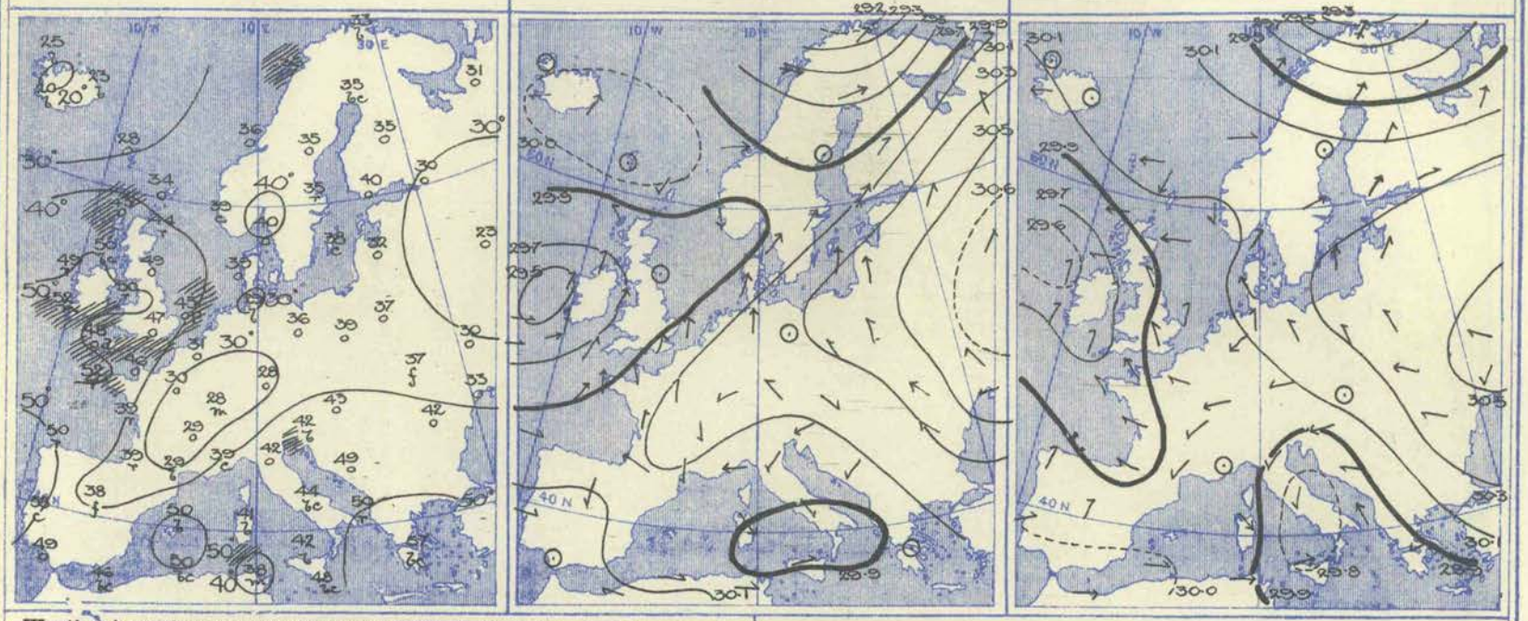
Wind in morning showing cyclonic movements both in the north and south of our area, and anticyclonic breezes over the intervening regions. Southerly and South-Westerly current fresh to high in these Islands, and strong to a gale beyond the North Sea. No force reported stronger than a fresh breeze in the south of Europe and on the Mediterranean. Veering to the Northward by evening in the north of Scotland, but no general change occurring. Gale continuing over Scandinavia and the north of Denmark.

Barometer in morning ranging from above 30·7 ins. in central Russia, and from a relatively high figure in a band extending thence as far as Spain, to below 29·9 ins. in a large shallow depression over Italy and its vicinity, and to below 29·3 ins. in a disturbance centred between Norway and the Faeröe. Latter system travelling north-eastward later and undergoing some modification in form, and another disturbance approaching the coast of Ireland from the Atlantic.

Saturday, 11th December, 1909.

Temperature and Weather. — 7 a.m.

Barometer and Wind. — 7 a.m. | 6 p.m.



Weather in morning cloudy or overcast generally, with rain in several parts of these Islands, France, the north of Spain, and in Scandinavia. Fair to very fine over the Mediterranean region as a whole, but dull in some localities, and rainy at Brindisi. Some rain later throughout this country, as much as 1·5 in. at Aberdeen, and various quantities in France, on the shores of the Mediterranean, and in the north of the Continent.

Temperature fallen in most regions. Readings in morning above 55° in Greece and at Lisbon, and about 50° at some other southern stations and in the west of these Islands; below 32° over a considerable portion of France and in Russia. Rising during day to about 60° at some places in the far south of our area, and to 55° at Birr Castle, but remaining below 40° at many stations in central Europe, and below 32° in the east of France.

Wind in morning anticyclonic over Russia and its vicinity, and also over Iceland; cyclonic elsewhere. Southerly current strong over Denmark and the south of Sweden, and that from West blowing a strong gale at Bodo. A moderate to strong Southerly breeze prevailing on the English Channel, and a high wind from South-East in the Minch. Decreasing somewhat in force during day over the United Kingdom, and backing towards South-East in England, and to East in Scotland.

Barometer in morning above 30·6 ins. in central Russia, and above 30·0 ins. over Iceland and its neighbourhood. Below 29·9 ins. in a large shallow depression over the Mediterranean, below 29·5 ins. in another system off the west coast of Ireland, and some tenths of an inch lower in a disturbance in the extreme north of Norway and beyond. Pressure increasing briskly later in Norway and Sweden and falling decidedly in France, Germany, and the Spanish Peninsula. Irish depression travelling away westward or dispersing.

ERRATUM.—**In the issue of the Weekly Weather Report for the week ending November 27th—No. 47—the Charts for November 22nd (p. 381) and 23rd (p. 382) were transposed and should be reversed.**

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
	1909.											Metres.	
1	Dec. 9th, 11.55 a.m. to 12.57 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	274·2° 96% 169°, 6	273·8° 95% 186°, 8	273·5° 95% 196°, 10	271° 98% 240°, 13	275° 56% 240°, 13			} 1,500		Fair to overcast. Gentle to moderate breeze. Clouds, Cu.-Ni. and Ni.
2	Dec. 10th, 9.56 a.m. to 11.33 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	280·5° 100% 200°, 7	280° 100% —°, 12	279° 100% —°, 18					278·5° 90% —°, 16	900	Cloud level, 400 m. Very steady winds.
3	Dec. 11th, 11.15 a.m to 1.0 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	281·3° 100% 146°, 6	280·2° 100% 173°, —	280° 100% 188°, —	277·3° 100% 206°, —				274·3° 100% 220°, —	1,410	Dull and Wet. Clouds, Ni. Gentle breeze. Wind gauge out of order, and so no wind velocity above ground level was obtained.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites	1	—	2
Area of Surface (sq. metres) ..	7·6	—	15·2
Capacity of Balloon (cub. metres)	—	—	—
Length of Wire (metres)	—	—	—

63, Victoria Street, London, S.W. *December 15th, 1909.*

W. N. SHAW, *Director.*

SPECIAL SUPPLEMENT TO REPORT No. 49, FOR THE WEEK ENDED DECEMBER 11TH.

Ascents of Registering Balloons made in Connexion with the Ascents organised by the International Commission for Scientific Aeronautics during the week from December 5th to December 11th, 1909.

Height.	1. PYRTON HILL. Dec. 6th, 7.5 a.m.		2. CRINAN. Dec. 6th, 8.10 a.m.		3. PYRTON HILL. Dec. 7th, 7.0 a.m.		4. DITCHAM PARK, PETERSFIELD. Dec. 7th, 7.6 a.m.			5. MANCHESTER. Dec. 7th, 7.14 a.m.		6. PYRTON HILL. Dec. 7th, 3.10 p.m.		7. MANCHESTER. Dec. 7th, 6 p.m.			Height.
km.	mgd.	°A	mgd.	°A.	mgd.	°A.	mgd.	°A.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A.	°A.	km.
Ground	·964	272	·985	272	·972	274	·990	274		·988	276·0	·974	274	·995	276·4		Ground
0·5	·924	274	·928	270	·931	270·5	·947	274·5		·925	272·5	·936	271·5	·937	280		0·5
1·0	·870	270·5	·871	271	·875	269·5	·893	272		·874	268·5	·879	269	·875	281·5		1·0
1·5	·816	267·5	·817	267·5	·821	267·5	·840	269		·827	267·0	·825	266	·818	282	278·5	1·5
2·0	·764	264	·767	263	·767	263	·787	265·5		·776	264·0	·777	263	·767	279·5	276	2·0
2·5	·715	261	·718	259·5	·718	260	·740	262·5	264·5	·728	261·0	·729	259·5	·716	275	274·5	2·5
3·0	·670	256·5	·671	255·5	·672	256·5	·693	259·5	260·5	·685	258·5	·684	255·5	·674	271·5		3·0
3·5	·624	251·5	·627	250·5	·631	254	·647	256		·634	254·0	·640	251	·634	267		3·5
4·0	·584	246·5	·585	245·5	·590	250·5	·607	252		·591	250·0	·599	247	·595	262		4·0
4·5	·544	242	·545	240·5	·551	247	·567	248		·555	245·5	·559	243	·558	257		4·5
5·0	·510	239	·510	237	·515	243	·531	243		·516	241·5	·520	239	·523	253		5·0
5·5	·475	235	·474	232·5	·478	239	·493	239		·481	236·5	·484	235	·481	249		5·5
6·0	·443	230	·439	229	·445	235	·453	234	235·5	·449	233·0	·451	230	·456	245·5		6·0
6·5	·409	226	·409	225	·413	232	·420	228·5	231·5	·418	230·0	·418	225	·422	241		6·5
7·0	·381	222	·376	221	·384	229·5	·394	224	226·5	·384	226·0	·390	222	·392	236·5		7·0
7·5	·354	221	·351	217·5	·356	227	·367	221·5	224	·355	223·0	·360	219 / 220	·362	232·5		7·5
8·0	·328	221·5	·324	215·5	·329	222·5	·340	221	222	·331	220·5	·332	219·5	·333	234		8·0
8·5	·302	222	·300	216·5	·305	222·5	·314	222		·307	222·5	·310	218·5	·310	234·5		8·5
9·0	·281	223	·276	217·5	·284	221·5	·291	222		·284	221·5	·285	220	·287	235·5		9·0
9·5	·261	224	·256	217·5	·262	221	·274	222·5		·267	221·5	·264	221	·267	236·5		9·5
10	·243	224	·238	217·5	·244	222	·253	223		·247	222·0	·245	222	·248	237		10
11	·208	223·5	—	—	·209	223	·213	224		·213	223·0	·211	221	·213	237		11
12	·178	223·5	—	—	·178	223	·187	224		·180	224·0	—	—	·180	235·5		12
13	·155	225·5	—	—	·156	223	·154	223		·154	223·5	—	—	·154	234·5		13
14	—	—	—	—	·132	223	·133	222	223	·133	222·0	—	—	·132	233		14
15	—	—	—	—	·108	222	·114	222		·114	221·5	—	—	·112	231·5		15
16	—	—	—	—	—	—	·100	222		·096	221·5	—	—	·099	230·5		16
17	—	—	—	—	—	—	·085	222		·084	221·5	—	—	·083	230·5		17
18	—	—	—	—	—	—	—	—		—	—	—	—	—]	—		18
19	—	—	—	—	—	—	—	—		—	—	—	—	—	—		19
20	—	—	—	—	—	—	—	—		—	—	—	—	—	—		20
Place of fall..	Nr. Hitchin.		Cladich, Oban.		Nr. Ongar.		Hamstreet, Ashford, Kent.			Bradwell, nr. Sheffield.		Nr. Byfleet.		Melton Mowbray.			
Direction ..	125°		10°		86°		83°			115°		132°		130°			Direction.
Distance .. (km.).	58		36		85		127			40		46		120			Distance (km.).
Gradient .. 0-7 km.	0·71		0·73		0·63		0·69			0·71		0·74		0·57			Gradient 0-7 km.

NOTES.

1. Commencement of stratosphere at 7·5 km. Thick cloud layer.
2. Lowest temperature 213°·5 at 8·2 km. A few cirrus moving very slowly from N.W. (315°).
3. Commencement of stratosphere at 8·3 km. 222°.
4. Wind, W.; clouds from N.W. (315°). Sky overcast.
6. Commencement of stratosphere at 7·5 km. Overcast, very dark.
7. Negative gradient from 0 to 1 km. Lower limit of stratosphere unusually low, viz., 7·5 km.

(15648—24.) Wt. 103—466. 450. 3/10. D & S.

Height.	8. MANCHESTER. Dec. 8th, 7.43 a.m.			9. CRINAN. Dec. 8th, 8.9 a.m.			10. MANCHESTER. Dec. 8th, 2.55 p.m.		11. MANCHESTER. Dec. 9th, 7.10 a.m.		12. DHUBOUGH, LEENANE, CO. GALWAY. Dec. 9th, 7.40 a.m.			13. CRINAN. Dec. 9th, 8.17 a.m.			14. PYRTON HILL. Dec. 9th, 3.35 p.m.			15. PYRTON HILL. Dec. 10th, 3.35 p.m.			16. MANCHESTER. Dec. 11th, 7.50 a.m.			17. DITCHAM PARK. Dec. 11th, 3.18 p.m.		Height.
Km.	mgd.	°A.	°A.	mgd.	°A.	°A.	mgd.	°A.	mgd.	°A.	mgd.	°A.	°A.	mgd.	°A.	°A.	mgd.	°A.	°A.	mgd.	°A.	°A.	mgd.	°A.	°A.	mgd.	°A.	Km.
Ground	1·008	271·6		1·007	274		1·013	277·2	1·021	274·4	?1·013	—		1·009	279		1·008	278		·999	282		1·005	284		·993	278	Ground
0·5	·956	270·5		·945	275		·954	270	·954	275	·948	276		·948	274		·968	276	277	*	*		·950	282	280	·963	275	0·5
1·0	·902	269·5		·889	269·5		·896	264·5	·898	273·5	·893	276		·892	272		·910	272	274				·893	280	278	·893	276·5	1·0
1·5	·847	269·5	271	·836	264		·840	261	·840	271·5	·840	276	274	·839	275·5		·853	271	274				·841	277·5	275·5	·840	274·5	1·5
2·0	·795	268·5	270·5	·784	260		·787	260	·790	269·5	·790	273		·790	271		·803	269	273				·790	274·5	272	·794	273	2·0
2·5	·744	264·5	266	·734	256·5		·733	256	·731	266·5	·742	271·5		·742	268		·752	266	271				·741	271·5	269·5	·740	270	2·5
3·0	·696	261·5	262·5	·689	253·5		·683	252·5	·684	265·5	·696	269·5		·696	265		·707	265	270·5				·693	268	267	·693	267	3·0
3·5	·651	258		·643	251	247	·638	248·5	·638	264·5	—	—		·652	262		·662	263	267				·649	265	264·5	·653	264	3·5
4·0	·605	253	254	·600	248	244	·596	246	·595	261	—	—		·612	259·5		·622	261	265				·609	262	261·5	·627	262	4·0
4·5	·567	250	250·5	·560	244·5	240·5	·554	242·5	·555	255·5	—	—		·573	259·5	255	·584	259	262				·571	260	258·5	·580	258	4·5
5·0	·536	246	246·5	·524	242	237	·518	239·5	·518	251	—	—		·536	255·5	253	·550	254	259				·536	257·5	255	·540	255	5·0
5·5	·500	241·5	242·5	·489	239·5	233·5	·480	237	·485	248	—	—		·501	250		—	—	—				·507	255·5	253	·507	250·5	5·5
6·0	·464	237·5	238·5	·457	236	230	·448	235	·451	245	-	—		·468	246·5		·481	249	254	*	*		·475	253	250·5	·474	247	6·0
6·5	·430	234·5	235	·427	233	229	·418	232·5	·417	241	—	—		·436	243		—	—	—	·441	245		·444	250·5	248	·440	243	6·5
7·0	·400	231·5		·396	229·5	226	·387	231·5	·388	237	—	—		·408	239·5		·421	244	247	·412	241·5		·416	247·5		·413	239	7·0
7·5	·373	228		?·396	226	223	·358	229	·355	234	—	—		·376	235		—	—	—	·385	237		—	—		·380	235	7·5
8·0	·344	224·5	225·5	·342	223	219·5	·331	225·5	·328	231	—	—		·351	232	231	·367	237	242	·358	234		—	—		·354	231	8·0
8·5	·318	223	225	·318	222·5	218	·307	223	·302	227	—	—		·328	229	228·5	—	—	—	·333	230		—	—		·327	226·5	8·5
9·0	·297	222·5	223	·294	222	218	·285	222·5	·280	224	—	—		·302	225·5	224	·318	232	236	·311	225·5		—	—		·307	222	9·0
9·5	·272	222		·274	221	218	·264	222	·262	221	—	—		·281	223	221	—	—	—	·288	221·5		—	—		·280	217·5	9·5
10	·251	222		·253	221	218	·244	221·5	·241	218·5	—	—		·260	219	216·5	·278	226	230	·265	217·5		—	—		·260	214	10
11	·218	222	223·5	·217	220	217	·208	221·5	·204	210·5	—	—		·222	213·5	211	·238	217	221	·228	210		—	—		·220	214·5	11
12	·187	221	224·5	·188	222	218	—	—	·171	208	—	—		·190	207	210	·203	212	214	·192	208		—	—		·187	216·5	12
13	·157	221·5	225	·160	222	218	—	—	·144	208·5	—	—		·148	208	211	—	—	—	·164	211·5	211	—	—		·157	218	13
14	·136	223·5	225·5	·137	222	217	—	—	·130	209·5	—	—		·137	212·5		—	—		·140	211·5		—	—		·133	218	14
15	·115	223·5	225	·116	221	216·5	—	—	—	—	—	—		·116	214	211	—	—		·120	210·5		—	—		·114	215·5	15
16	·099	222	222·5	·098	219·5	215	—	—	—	—	—	—		·098	213	211·5	—	—		—	—		—	—		·101	213	16
17	·083	220	221·5	·084	218	214	—	—	—	—	—	—		·084	212		—	—		—	—		—	—		—	—	17
18	·072	219·5	221	·072	216·5	214	—	—	—	—	—	—		·072	211·5		—	—		—	—		—	—		—	—	18
19	·062	219	221	·061	215	214	—	—	—	—	—	—		·061	212		—	—		—	—		—	—		—	—	19
20	·051	219		·052	214		—	—	—	—	—	—		·052	212		—	—		—	—		—	—		—	—	20
At min. Pressure.	—	—	—	—	—	—	—	—	—	—	·674	268		—	—	—	·144	213·5		·111	210		—	—	—	—	—	At min. Pressure
Max. Height (Km.).	—	—	—	—	—	—	—	—	—	—	3·25			—	—	—	14·2			15·5			—	—	—	—	—	Max. Height (Km.).
Place of fall.	Rugby.			Sanquhar.			Paulerspury, Northants.		Somerton, Oxon.		Nr. Collooney, Sligo.			Biggar, Lanarkshire.			Nr. Worthing.			Nr. Willesden.			Ribblehead, Yorks.			Swanmore, Bishop's Waltham, Hants.		Place of fall.
Direction	150°			128°			150°		158°		50°			113°			154°			102°			357°			267°		Direction
Distance (km.).	140			107			175		175		54			112			100			52			80			16·5		Distance (km.).
Gradient 0–7 h.m.	0·57			0·66			0·65		0·53		—			0·57			0·46			0·57			0·51			0·56		Gradient. 0–7 h.m.

8. Very small gradient from 0 to 2 km.
9. Showery.
10. Very large gradient, 0 to 1·5 km.
11. Rather small and irregular gradient from 0 to 4 km.
12. Moderate wind from S.S.W. (202°). Rain and clouds.
13. Lowest temperature, **206**° at 12·5 km. Raining hard all day, with gale from S.S.W. (202°).
14. Lowest temperature, **210**° at 12·5 km. Ci, cu, and ci-cu moving quickly from N. (360°) and N.W. (315°).
15. * Trace missing. Lowest temperature, **206**° at 11·7 km. At 6·3 km., **246**°. At 12·5 km., **211**°. Raining, strong wind.
17. Balloon lost in clouds in one minute, then in sight again for a minute more. Wind from S.E. (135°), veering above.

The results given above are stated in absolute or metric units. The units adopted for each element are as follows :—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (mgd.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273° ; Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

Meteorological Office.
February 26th, 1910.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 50. FIFTIETH WEEK, SUNDAY DECEMBER 12TH TO SATURDAY DECEMBER 18TH, 1909. *[Price 6d. Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather.—During the early days of the week the conditions were dry and quiet, although mostly dull or very cloudy, but subsequently precipitation became rather general except in the west of Scotland, and towards the end of the period much of it took the form of snow. Bright aurora was seen in Scotland on the night of the 14th.

Temperature was almost normal in England E. and Ireland N., but in nearly all other districts it was below the average, the deficit being as great as 4°·5 in England S.W., and 5·7° in the English Channel. The highest of the maxima were registered at most stations on the 12th or 13th, and ranged from 54° in Ireland S., 53° in Ireland N., and about 50° in some parts of England to 46° in England S.E., and to 44° in England E. On Saturday the maxima recorded in some Scottish localities were below 32°. The lowest of the minima, which were recorded during the latter half of the period, varied between 18° in Scotland W. and E., and 32° in England E. The lowest grass readings registered were 15° at Balmoral, 17° at Aspatria, 19° at Newton Rigg and Glasgow, and 21° at Markree Castle and Cambridge.

Mean Temperature of the Sea.—On most parts of the coast the water was colder than during the corresponding week of last year, the difference being more than 4° at Eastbourne and about 4° at Plymouth and Newquay. The actual means for the week ranged from 48°·7 at Seafield, 47°·8 at Port Erin, and rather less than 47° on the south-west coast of England to about 42° at Kirkwall, Cromarty, Pennan Bay, and Burnmouth.

Rainfall exceeded the normal in England E. and S.E. and the Midland Counties and was almost identical with it in England S.W., but elsewhere there was a deficit. The fall in Scotland, Ireland, and the extreme north of England was very slight. At Portland Bill on the 16th the measurement for the 24 hours equalled 2·1 ins.

Bright Sunshine was deficient generally, but just equalled the normal in Ireland S. and slightly exceeded it in Scotland N. The percentages of the possible duration ranged from 22 in England S.W., and 21 in Ireland S. to below 10 over the eastern half of Great Britain and to 2 in England N.E.

Barometer and Wind.—During the greater part of the week the pressure distribution was mainly anticyclonic over these islands, a high pressure system extending south-westward from Scandinavia. After a gradual encroachment of depressions from the south-westward, however, the anticyclone began to give way on Thursday, and before the end of the period it had entirely dispersed. On Saturday morning the centre of a depression, which had increased in depth as it travelled from the western part of the Channel, lay over Holland. Until the high pressure gave way the wind was from between East and South in Scotland and East and North-East in England and Ireland, and except on the south and south east coasts of England where it was at times very strong to high; it had little force. By Saturday it had shifted to the Northward over the Kingdom generally and to the North-Westward in the South-East.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 364.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient
	Rainfall ...	Very light	Light	Moderate	Heavy	Heavy	Moderate	Very light	Moderate	Moderate	Very light	Light	Light
	Sunshine ...	Abundant	Moderate	Scanty	Very scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 2 weeks from Dec. 5th, 1909.	Warmth ...	0 * 2	0 * 1	0 * 1	0 * 0	0 * 0	0 * 1	0 * 1	0 * 1	0 * 2	0 * 1	0 * 1	0 * 2
	Rainfall ...	0 * 1	1 * 1	1 * 0	2 * 0	2 * 0	1 * 0	1 * 1	1 * 0	1 * 0	0 * 1	0 * 1	0 * 1
	Sunshine ...	2 * 0	1 * 0	0 * 1	1 * 1	0 * 1	1 * 1	0 * 0	0 * 0	0 * 0	0 * 1	0 * 0	0 * 1

PAST SEASONS.

WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4
AUTUMN, 1909. Sept. 5th–Dec. 4th. 13 weeks.	Warmth ...	2 * 6	3 * 5	2 * 6	4 * 5	4 * 5	3 * 6	3 * 7	3 * 6	3 * 6	4 * 7	4 * 6	3 * 5
	Rainfall ...	5 * 7	5 * 4	1 * 4	3 * 1	3 * 4	5 * 4	4 * 5	4 * 6	4 * 5	4 * 7	5 * 8	5 * 5
	Sunshine ...	5 * 2	5 * 3	3 * 5	2 * 6	2 * 5	3 * 2	5 * 5	5 * 2	4 * 4	5 * 2	5 * 2	4 * 5

8273 450 Wy. & S. Ltd. 12—09.

II.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree' signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIFTIETH WEEK—December 12th to December 18th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	48	18	38·3	30·4	34·5	− 4·5	0	− 9	53	+ 24	3	− 3	0·22	−1·20	6	+ 2	13	+ 4
Eastern																		
1. SCOTLAND, EAST	49	18	40·5	33·2	37·0	− 0·9	0	− 8	35	− 3	4	− 1	0·17	−0·51	4	− 3	8	− 7
2. ENGLAND, N.E.	48	26	41·9	37·5	39·8	+ 0·6	0	− 9	15	− 15	3	0	0·30	−0·28	1	− 8	2	−15
3. ENGLAND, EAST	44	32	41·1	36·4	38·8	− 0·2	0	− 10	22	− 12	3	− 1	0·76	+0·30	2	− 8	4	−15
4. MIDLAND COUNTIES	50	30	40·7	35·0	38·0	− 0·8	0	− 11	28	− 8	4	0	0·77	+0·23	2	− 6	4	−11
5. ENGLAND, S.E.	46	30	41·4	34·9	38·3	− 2·8	0	− 17	26	+ 3	4	0	0·81	+0·21	3	− 7	6	−13
Western																		
6. SCOTLAND, WEST	52	26	42·3	35·0	38·8	− 2·0	1	− 12	26	+ 4	1	− 4	0·03	−1·22	6	− 1	12	− 1
7. ENGLAND, N.W.	50	25	42·2	36·0	39·3	− 1·3	1	− 12	23	− 1	2	− 3	0·26	−0·53	6	− 1	12	− 2
8. ENGLAND, S.W.	50	29	41·3	34·6	38·1	− 4·5	0	− 21	27	+ 11	4	− 1	1·05	−0·01	12	+ 2	22	+ 4
9. IRELAND, NORTH	53	27	44·1	38·4	41·4	+ 0·3	6	− 8	15	− 7	2	− 3	0·21	−0·67	8	− 1	16	− 2
10. IRELAND, SOUTH	54	29	44·2	38·3	41·4	− 1·6	6	− 17	16	0	3	− 2	0·28	−0·75	11	0	21	0
11. ENGLISH CHANNEL	51	30	44·5	37·9	41·3	− 5·7	7	− 27	17	+ 13	3	− 2	0·35	−0·58	8	− 5	15	− 8

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 2 Weeks, December 5th to December 18th, 1909.

0. SCOTLAND, NORTH	54	16	*	*	*	*	0	− 19	94	+ 37	9	− 2	1·86	−1·10	15	+ 6	17	+ 6
Eastern																		
1. SCOTLAND, EAST	56	0	*	*	*	*	0	− 17	88	+ 16	7	− 3	1·19	−0·27	18	+ 3	19	+ 3
2. ENGLAND, N.E.	54	21	*	*	*	*	3	− 17	53	− 3	8	+ 1	1·33	+0·20	12	− 6	12	− 6
3. ENGLAND, EAST	51	24	*	*	*	*	1	− 22	56	− 8	9	0	1·62	+0·62	16	− 4	15	− 4
4. MIDLAND COUNTIES	53	23	*	*	*	*	3	− 21	67	0	9	+ 1	1·57	+0·43	11	− 6	10	− 6
5. ENGLAND, S.E.	50	20	*	*	*	*	5	− 31	60	+ 16	9	0	1·76	+0·45	20	− 1	18	− 1
Western																		
6. SCOTLAND, WEST	55	12	*	*	*	*	2	− 26	67	+ 26	5	− 5	2·25	−0·35	14	0	14	0
7. ENGLAND, N.W.	56	15	*	*	*	*	6	− 22	54	+ 11	8	− 2	1·63	−0·06	14	− 1	14	− 1
8. ENGLAND, S.W.	53	24	*	*	*	*	11	− 34	53	+ 22	9	− 1	2·56	+0·34	22	+ 1	20	+ 1
9. IRELAND, NORTH	56	20	*	*	*	*	14	− 15	49	+ 7	8	− 3	1·05	−0·74	13	− 6	13	− 6
10. IRELAND, SOUTH	56	20	*	*	*	*	17	− 31	45	+ 14	9	− 1	1·31	−0·73	20	− 2	19	− 2
11. ENGLISH CHANNEL	54	30	*	*	*	*	29	− 42	24	+ 17	10	0	1·48	−0·51	19	− 7	17	− 6

THE YEAR.—Aggregates, &c., for the Period of 50 Weeks, January 3rd to December 18th, 1909.

0. SCOTLAND, NORTH	72	12	*	*	*	*	1872	−225	825	+ 94	237	0	42·33	−7·34	1147	+ 46	26	+ 1
Eastern																		
1. SCOTLAND, EAST	80	0	*	*	*	*	2048	−292	1004	+160	199	+ 3	31·39	+1·80	1307	− 11	30	0
2. ENGLAND, N.E.	85	14	*	*	*	*	2540	− 86	778	+162	183	+ 6	25·62	+1·74	1378	− 53	32	− 1
3. ENGLAND, EAST	85	12	*	*	*	*	2849	−182	711	+ 26	191	+19	24·87	+2·09	1588	+ 30	37	+ 1
4. MIDLAND COUNTIES	86	8	*	*	*	*	2755	−189	869	+151	181	+11	26·23	+0·97	1422	+ 35	33	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	2989	−314	642	+150	176	+11	30·81	+4·90	1712	+135	40	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2353	−209	712	+164	189	−16	44·54	−1·42	1407	+ 60	33	+ 1
7. ENGLAND, N.W.	82	10	*	*	*	*	2568	−235	652	+161	191	+ 1	34·91	+1·45	1489	+120	35	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2882	−276	533	+150	190	+ 1	35·49	−1·31	1675	+134	39	+ 3
9. IRELAND, NORTH	78	13	*	*	*	*	2555	−123	521	+ 63	222	− 1	34·04	−2·62	1271	+ 6	30	0
10. IRELAND, SOUTH	81	15	*	*	*	*	2991	−118	442	+ 92	210	+11	32·68	−5·44	1483	+ 56	35	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	3635	− 99	197	+ 77	179	−23	29·20	−1·95	1954	+ 83	46	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked **M** is supplied by the Royal Meteorological Society, and that for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Rainfall. No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Bright Sunshine. Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Names of Stations.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*46*	*12th*	*36*	*18th*	*41·9*	*36·5*	*39·3*	—	*0*	*19*	*4*	*0·55*	—	*0·0*	—	*0*	—	*Balta Sound.*
	a Sumburgh Head ..	48	12th	27	18th	42·1	32·1	37·3	- 3·4	0	36	4	0·24	- 0·80	3·3	- 2·1	8	- 5	Deerness.
	a Stornoway	47	12th	27	18th	39·7	33·0	36·5	- 3·8	0	39	4	0·43	- 0·98	9·8	+ 3·7	22	+ 8	Stornoway.
	a Castlebay, Barra Isd.	*49*	*12th*	*33*	*18th*	*44·3*	*41·1*	*42·8*	- *0·1*	*9*	*3*	*2*	*0·35*	—	*10·1*	—	*22*	—	*Castlebay.*
	a Wick	46	12th	30	18th	41·1	36·6	38·9	- 0·7	0	22	4	0·44	- 0·23	*	*	*	*	
	p Strathpeffer.. ..	42	12th	22	14th	35·7	28·1	32·1	- 5·6	0	69	3	0·09	- 0·67	8·7	+ 2·0	19	+ 4	Strathpeffer.
	p Glencarron .. S	44	12th	18	18th	38·6	27·2	33·1	- 4·8	0	62	2	0·14	- 2·16	*	*	*	*	
	p Fort Augustus S	43	12th	19	18th	35·0	27·3	31·3	- 7·7	0	75	2	0·10	- 1·15	1·3	- 0·7	3	- 2	Fort Augustus.
	p Fort William S	46	12th	20	18th	36·1	28·7	32·6	- 8·0	0	66	2	0·08	- 2·14	*	*	*	*	
1. SCOTLAND E.	*p* Gordon Castle S	47	12th	22	15th	40·7	29·9	35·5	- 3·6	0	46	2	0·22	- 0·38	*6·6*	—	*15*	—	*Gordon Castle.*
	a Nairn	42	12th	22	15th	33·6	28·1	31·0	- 7·3	0	77	5	0·21	- 0·29	4·9	—	11	—	Nairn.
	a Aberdeen	46	12th	32	18th	40·6	39·0	39·8	+ 0·7	0	15	5	0·22	- 0·44	1·5	- 7·5	3	- 16	Aberdeen.
	a Balmoral .. S	48	16th	18	15th	44·3	25·3	35·2	- 0·1	6	63	3	0·37	- 0·38	—	—	—	—	Crathes S.
	p Crieff .. .. S	44	12th	26	18th	39·7	34·4	37·2	- 1·0	0	34	5	0·09	- 0·87	3·5	—	8	—	Balruddery
	a Leith	48	12th	34	18th	42·4	39·4	41·0	+ 0·9	1	10	5	0·66	- 0·37	5·9	+ 0·9	12	+ 2	Edinburgh.
	a West Linton.. S	45	12th	30	18th	37·7	34·5	36·2	- 1·2	0	41	3	0·05	—	*5·0*	—	*10*	—	*West Linton.*
	p Marchmont .. S	49	12th	25	18th	44·6	35·1	40·0	+ 2·3	7	27	4	0·17	- 0·42	2·4	- 5·7	5	- 12	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle ..	48	12th	33	18th	41·9	38·8	40·4	+ 0·8	0	11	3	0·25	- 0·40	0·8	—	2	—	Cockle Park.
	a Shields	45	13th	33	18th	42·4	38·4	40·5	+ 0·4	1	14	2	0·12	- 0·32	*0·0*	- *5·5*	*0*	- *11*	*Newcastle.*
	p Durham	47	12th	26	18th	41·2	36·5	38·9	+ 0·6	0	22	2	0·06	- 0·37	0·0	- 9·5	0	- 19	Durham.
	p Rounton .. M	47	12th	27	18th	41·7	35·6	38·8	+ 0·5	0	22	3	0·21	- 0·21	*	*	*	*	
	p Scarborough.. M	47	12th	29	18th	43·4	37·7	40·7	+ 0·5	4	17	3	0·27	- 0·23	1·0	—	2	—	Scarborough.
	p York	47	12th	30	18th	43·0	37·6	40·4	+ 0·9	3	17	4	0·38	- 0·05	0·0	- 5·9	0	- 12	York.
	a Spurn Head	44	12th	37	16th	42·0	39·1	40·6	0·0	0	10	2	0·56	+ 0·15	*	*	*	*	
	a Lincoln														3·0	—	6	—	Skegness.
	a Fulbeck	41	12, 13, 14th	35	16th, 17th	39·8	36·3	38·1	- 0·2	0	27	6	0·58	+ 0·15	0·9	—	2	—	Rauceby.
															0·4	—	*1*	—	*Lowestoft.*
	p Cromer														—	—	—	—	Cromer.
3. ENGLAND, E.	*p* Hillington .. M	42	12th, 13th	32	18th	40·7	35·7	38·3	- 0·4	0	26	4	1·26	+ 0·72	1·0	- 8·5	2	- 16	Hillington.
	a Yarmouth	43	12th	36	16th	41·1	38·1	39·7	- 0·2	0	16	3	0·62	+ 0·12	0·0	—	0	—	Yarmouth.
	a Norwich	42	12th, 13th	35	17th	40·9	37·0	39·0	- 0·2	0	21	4	0·97	—	*	*	*	*	
	p Geldeston	43	12, 13, 14th	33	18th	41·8	36·6	39·3	- 0·4	0	19	3	0·91	+ 0·43	0·4	- 10·7	1	- 20	Geldeston.
	p Cambridge	43	13th	34	14, 16, 18th	41·2	35·9	38·7	- 0·5	0	23	3	0·47	+ 0·10	3·1	- 6·2	6	- 12	Cambridge.
	a Felixstowe	*43*	*12th, 13th*	*34*	*18th*	*41·3*	*36·7*	*39·1*	- *1·5*	*0*	*20*	*3*	*1·04*	—	*1·9*	—	*4*	—	*Felixstowe.*
	a Clacton-on-Sea ..	44	12th	36	13, 16, 18th	41·6	37·1	39·4	- 0·9	0	18	2	1·00	—	4·2	—	8	—	Clacton.
	a Rothamsted ..	42	12th, 13th	32	16th	40·2	34·2	37·3	- 1·9	0	33	4	0·47	- 0·08	2·3	- 7·4	4	- 14	Rothamsted.
	a Shoeburyness ..	*43*	*12, 13, 18th*	*34*	*16th*	*41·1*	*36·0*	*38·7*	- *2·2*	*0*	*23*	*4*	*0·82*	+ *0·48*	*2·2*	—	*4*	—	*Southend.*
	p Tottenham	44	13th	34	16th	41·0	36·7	38·9	- 1·1	0	22	4	0·37	—	2·0	—	4	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	50	12th	33	17th	40·8	35·5	38·3	- 0·1	0	26	5	0·56	- 0·02	1·3	—	3	—	Harrogate.
	a Bawtry	43	12th	30	16th	40·4	36·0	38·3	- 0·6	0	26	6	0·62	+ 0·19	1·5	- 5·7	3	- 11	Worksop.
	p Buxton .. M	*43*	*12th*	*27*	*18th*	*38·2*	*33·7*	*36·0*	- *0·9*	*0*	*42*	*4*	*0·51*	- *0·67*	*0·5*	—	*1*	—	*Buxton.*
	a Nottingham ..	43	12th	33	17th	41·3	37·1	39·3	0·0	0	19	5	0·61	+ 0·13	1·1	—	2	—	Nottingham.
	p Birmingham, Edgbsn	45	12th	32	16th, 18th	40·3	35·2	37·9	- 1·3	0	29	4	0·65	+ 0·12	0·2	—	0	—	Birmingham.
	a Raunds .. M	42	13th	32	16th	40·3	34·3	37·4	- 1·5	0	32	3	0·60	—	*	*	*	*	
	a Oxford	42	12, 13, 17, 18	32	16th	41·1	35·4	38·4	- 1·6	0	25	4	0·32	- 0·15	2·2	- 7·3	4	- 14	Oxford.
	a Cheadle .. M	42	12th	32	16th, 17th	38·6	34·0	36·4	- 1·8	0	39	4	0·82	+ 0·17	2·3	—	4	—	Sheffield.
	p Shrewsbury ..	47	12th	30	14th, 18th	43·0	34·9	39·1	- 2·2	3	27	4	0·71	—	*	*	*	*	
	a Hereford .. M	42	12, 14, 18th	32	16th	40·7	34·8	37·9	- 1·8	0	29	5	1·61	+ 1·08	*	*	*	*	
	a Cirencester	41	14th	30	16th	39·7	32·8	36·4	- 2·4	0	39	3	0·94	+ 0·34	—	—	—	—	Cirencester.
	a Bath	43	13, 16, 18th	32	16th, 17th	41·7	35·1	38·5	- 2·5	0	25	4	0·98	+ 0·30	6·7	—	12	—	Bath.
															5·0	—	*9*	—	*Ramsgate.*
5. ENGLAND, S.E... ..	*p* Kew	44	13th	34	15th, 16th	41·6	36·6	39·2	- 1·3	0	20	4	0·43	- 0·02	1·7	- 6·7	3	- 13	Kew.
	a Marlborough ..	41	12, 13, 16th	31	16th, 17th	40·1	33·4	36·9	- 2·1	0	36	5	0·60	- 0·07	2·1	- 5·7	4	- 11	Marlborough.
	a Margate	44	13th	33	12th, 13th	41·2	34·9	38·2	- 3·2	0	27	2	0·70	+ 0·23	2·4	- 8·3	4	- 15	Margate.
	a Wisley, Surrey ..	42	12, 13, 16, 17	33	16th	41·0	35·7	38·5	- 2·0	0	25	4	0·81	—	2·7	—	5	—	Wisley.
	a Swarraton .. M	42	13th, 16th	31	16th, 17th	40·3	33·9	37·2	- 2·3	0	34	5	0·82	+ 0·12	5·3	—	10	—	Worthing.
	a Tunbridge Wells M	41	12, 13, 17th	30	16th	39·5	32·4	36·1	- 3·6	0	41	4	0·67	0·00	0·4	- 9·6	1	- 18	Tunbridge Wells.
	a Dungeness	44	12, 13, 17th	33	12th, 16th	42·3	35·4	39·0	- 3·1	1	24	5	1·67	+ 1·17	1·0	—	2	—	Littlestone.
	p Hastings	44	17th, 18th	32	12th, 15th	41·3	35·3	38·4	- 3·6	0	25	5	1·21	+ 0·56	*4·2*	- *8·7*	*8*	- *16*	*Hastings.*
	p Southampton ..	45	17th	32	16th	42·6	35·5	39·2	- 2·9	2	24	4	0·66	- 0·01	6·3	- 4·6	12	- 9	Southampton.
	a Ventnor	46	16th, 17th	33	16th	43·7	36·3	40·2	- 4·1	5	23	5	0·48	- 0·19	9·1	- 2·1	17	- 4	Ventnor.
															2·0	- 10·0	4	- 18	Eastbourne.
LONDON .. — ..	*a Westminster* ..	*45*	*18th*	*34*	*16th*	*42·6*	*36·7*	*39·8*	- *0·8*	*2*	*20*	*4*	*0·35*	- *0·10*	*0·1*	- *3·0*	*0*	- *6*	*Westminster.*
	a Greenwich	*43*	*18th*	*33*	*19th*	*40·8*	*35·5*	*38·3*	- *1·9*	*0*	*26*	*4*	*0·42*	- *0·02*	*0·4*	- *7·2*	*1*	- *13*	*Greenwich.*
6.	*a* Laudale	52	12th	26	18th	38·9	30·9	35·1	- 6·6	0	48	0	0·00	- 2·18	*	*	*	*	
	a Poltalloch .. S	48	12th	27	17th	42·4	33·4	38·1	- 2·4	1	32	0	0·00	- 1·25	*	*	*	*	
	p Glasgow	46	12th	28	16th	41·4	36·7	39·1	- 1·0	0	29	0	0·00	- 0·90	4·3	+ 1·0	9	+ 2	Glasgow.
a, SCOTLAND. W. ..	*p* Rothesay .. S	48	12th	29	18th	42·9	37·3	40·2	- 0·5	3	18	0	0·00	- 1·10	*	*	*	*	
	a Kilmarnock	46	12th, 14th	33	18th	41·4	35·1	38·4	- 2·3	0	25	0	0·00	—	*9·4*	—	*20*	—	*Kilmarnock.*
	a Colmonell	50	13th, 14th	27	16th	43·3	32·2	38·0	- 3·4	4	37	2	0·11	- 1·05	*	*	*	*	
	p Dumfries	50	12th	32	18th	44·1	37·5	41·0	+ 1·6	6	18	0	0·00	- 0·90	*4·9*	—	*10*	—	*Dumfries.*
	p Cally, Gatehouse S	49	12th, 13th	27	18th	43·3	34·8	39·2	- 0·5	4	27	1	0·01	- 1·20	*	*	*	*	
b, ISLE OF MAN ..	*p* Douglas	48	12th	30	18th	43·4	37·3	40·5	- 2·1	4	18	1	0·14	- 0·95	7·8	- 1·9	15	- 4	Douglas.
															0·4	—	1	—	Hoylake.
7.	*p* Aspatria	49	12th	25	18th	41·4	33·6	37·7	- 1·8	0	30	1	0·02	- 0·88	15·9	—	32	—	Aspatria.
	p Newton Rigg ..	49	12th	25	18th	40·6	32·0	36·5	- 1·5	0	39	1	0·02	- 0·84	7·1	- 0·6	14	- 1	Newton Rigg.
	p Stonyhurst ..	48	12th	27	18th	41·6	35·8	38·8	- 0·8	0	22	3	0·20	- 0·80	4·2	- 2·0	8	- 4	Stonyhurst.
a, ENGLAND, N.W...	*p* Blackpool .. M	46	12th, 13th	33	18th	42·5	35·8	39·2	- 1·2	1	23	3	0·22	- 0·48	6·3	- 0·3	12	- 1	Blackpool.
	p M'nch'ster, Prestwich	47	12th	28	18th	41·5	35·9	38·8	- 0·9	0	22	3	0·22	- 0·60	*3·1*	- *1·0*	*6*	- *2*	*Prestwich.*
	a Liverpool (Bidston)	45	12, 13, 14th	35	16th, 17th	42·0	37·6	39·9	- 1·2	0	15	3	0·33	- 0·21	*0·6*	—	*1*	—	*Liverpool.*
	a Hawarden Bridge ..	46	12th	34	14th	42·7	37·3	40·1	- 1·8	2	18	4	0·47	- 0·01	*4·4*	- *2·5*	*9*	- *5*	*Southport.*
															—	—	—	—	*Rhyl.*
b, NORTH WALES ..	*p* Llandudno .. M	46	12th	34	18th	43·2	37·5	40·5	- 2·8	3	18	1	0·49	- 0·23	2·4	- 6·2	5	- 12	Llandudno.
	a Holyhead	48	12th	36	16th, 17th	43·7	38·9	41·4	- 2·3	5	13	2	0·31	- 0·57	14·2	—	27	—	Aberdovey.
	p Bettws-y-Coed ..	50	12th	29	14th	43·0	35·7	39·5	- 3·5	3	24	3	0·45	—	0·1	—	0	—	Bettws-y-Coed.
															13·2	—	25	—	Aberystwyth.
8.	*a* Llangammarch Wells	42	12th, 14th	31	16th	39·3	34·1	36·8	- 2·2	0	36	4	1·81	—	3·4	—	6	—	Llangammarch Wells.
a, SOUTH WALES ..	*a* Pembroke	46	12, 14, 18th	31	17th	43·3	35·6	39·6	- 5·5	4	24	4	0·69	- 0·21	13·5	+ 3·2	25	+ 6	Pembroke.
	a Cardiff	45	12th	31	16th	40·5	34·3	37·5	- 2·8	0	32	5	1·31	+ 3·30	*9·2*	—	*17*	—	*Cardiff.*
	a Clifton	44	13th	32	16, 17, 18th	41·5	34·6	38·2	- 3·5	0	27	4	1·17	+ 0·40	*12·6*	+ *1·9*	*23*	+ *4*	*Tenby.*
	a Shaftesbury .. M	42	16th	29	16th, 17th	38·8	32·6	35·8	- 4·1	0	43	4	0·79	+ 0·02	4·7	—	9	—	*Clifton.*
	a Arlington	42	13th	29	17th, 18th	39·6	33·3	36·6	- 4·9	0	38	5	0·71	- 0·66	*	*	*	*	
b, ENGLAND, S.W. ..	*a* Cullompton .. M	44	13th	31	18th	40·1	33·9	37·1	- 4·4	0	34	5	0·75	- 0·10	21·0	+ 9·2	38	+17	Newquay.
	a Portland Bill ..	46	13th	35	16th	44·3	37·4	41·0	- 3·1	6	19	5	0·79	- 3·0	5·9	- 3·0	11	- 6	Cullompton.
	p Plymouth	47	12th	29	17th	42·1	34·4	38·4	- 5·9	0	28	4	2·27	—	*2·5*	—	*5*	—	*Weymouth.*
	p Falmouth	50	12th	31	17th	43·9	35·4	39·8	- 5·7	5	25	4	0·44	- 0·86	13·5	+ 0·8	25	+ 1	Falmouth.
															7·9	- *4·3*	*14*	- 8	*Torquay.*
9. IRELAND, N.	*a* Malin Head	50	12th	37	17th, 18th	44·7	39·7	42·3	- 0·3	12	6	2	0·26	- 0·47	*	*	*	*	
a, West.	*a* Blacksod Point ..	51	12th	37	18th	44·6	40·1	42·4	- 1·7	11	5	2	0·21	- 1·09	*	*	*	*	
	p Markree Castle ..	53	12th	27	18th	44·5	34·9	39·9	- 1·0	7	28	2	0·20	- 0·82	9·3	+ 1·1	18	+ 2	Markree Castle.
	a Birr Castle	50	12th	31	18th	43·0	37·6	40·4	- 0·7	3	17	4	0·23	- 0·48	*9·6*	- *1·0*	*19*	- *2*	*Birr Castle.*
b, East.	*p* Armagh	50	12th	30	18th	42·9	36·9	40·0	- 0·6	3	19	2	0·21	- 0·44	6·8	- 2·2	13	- 4	Armagh.
	a Donaghadee	49	12th	36	18th	45·1	41·4	43·3	+ 1·2	12	2	2	0·17	- 0·53	*	*	*	*	
10. IRELAND, S.	*p* Dublin, City.. ..	49	12th	34	18th	44·8	40·2	42·6	- 0·5	12	5	5	0·46	- 0·03	4·6	- 7·5	9	- 15	Phœnix Park.
a, East.	*a* Kilkenny	49	14th	30	18th	43·4	38·0	40·8	- 0·4	4	16	3	0·12	- 0·62	*	*	*	*	
	a Waterford	49	12th, 14th	31	18th	45·6	37·4	41·7	- 0·9	10	20	4	0·51	- 0·45	*	*	*	*	
	a Birr Castle	50	12th	31	18th	43·0	37·6	40·4	- 0·7	3	17	4	0·23	- 0·48	9·6	- 1·0	19	- 2	Birr Castle.
	a Foynes	51	12th	33	18th	43·6	38·2	41·0	- 2·4	4	15	3	0·16	- 0·84	*	*	*	*	
b, West.	*a* Cahir .. .. M	50	12th	31	18th	42·0	37·6	39·9	- 3·1	0	15	2	0·24	—	*	*	*	*	
	a Killarney	54	12th	29	18th	44·0	38.0	41·1	- 2·8	6	16	2	0·10	- 1·49	*	*	*	*	
	a Valencia	53	12th	30	18th	46·1	38·1	42·3	- 3·7	18	11	1	0·23	- 1·21	22·2	+12·2	42	+24	Valencia.
	a Roche's Point ..	50	12th	34	17th	44·9	40·0	42·6	- 2·5	13	6	6	0·45	- 0·74	7·5	—	14	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	51	12th	37	18th	46·1	41·1	43·7	- 4·4	16	3	2	0·18	- 0·72	9·9	- 2·1	18	- 4	Scilly.
	a Jersey, St. Aubins ..	46	13th, 18th	30	13th	43·6	35·1	39·5	- 5·7	4	26	4	0·40	- 0·50	9·6	- 4·9	17	- 9	St. Heliers.
	a Guernsey	46	13th	33	16th	43·9	37·4	40·8	- 5·1	5	18	3	0·48	- 0·50	4·7	- 5·5	8	- 10	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 7·3 hrs. (- 4·2 hrs.), 13 % (- 8 %); Bournemouth, 7·8 hrs., 14 %; Bognor, 6·6 hrs., 12 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	39·1	—
	— —				
	— —				
1.	Aberdeen	—	—	—	40·4
	Crathes				
	Balmoral	6	15	—	—
	West Linton	2	27	—	—
	Marchmont	1	23	39·0	—
2.	Cockle Park	0	31	39·5	40·6
	Durham	0	31	—	—
	York	—	—	41·1	43·5
	Hull	1	24	40·0	44·0
	Lincoln				
	Rauceby	0	31	40·8	44·5
3.	Norwich	3	27	—	—
	Yarmouth	—	—	39·7	43·7
	Lowestoft	1	27	40·5	43·7
	Cambridge	5	21	40·1	44·0
	Clacton-on-Sea	0	31	41·5	45·8
	Southend	3	28	40·7	—
	Tottenham	1	29	—	45·0
4.	Harrogate	0	31	40·7	41·7
	Huddersfield	1	29	40·1	42·5
	Buxton	2	23	39·0	43·2
	Sheffield	3	25	40·3	43·5
	Nottingham	1	30	39·5	41·8
	Birmingham	2	29	41·0	45·1
	Oxford	3	27	—	—
	Hereford	5	24	—	—
	Cirencester	2	28	—	—
5.	Margate	0	31	40·7	43·9
	Greenwich	2	30	—	—
	Westminster	0	33	—	—
	Kew	0	31	40·2	45·0
	Canterbury	5	28	39·5	41·9
	Tunbridge Wells	2	29	38·8	—
	Wisley	0	31	40·0	44·0
	Worthing	0	31	39·8	45·2
	Portsmouth	0	32	40·7	45·9
6.	Glasgow	1	19	—	—
	Rothesay	—	—	—	41·8
	Colmonell	5	23	—	—
	Dumfries	1	29	39·1	40·6
	Douglas	0	31	—	—
7.	Aspatria	6	17	—	—
	Newton Rigg	7	19	39·0	41·2
	Burnley	3	26	39·5	42·0
	Southport	2	28	39·2	41·1
	Manchester City	1	28	40·0	43·4
	Bettws-y-Coed	1	27	41·4	44·0
8.	Llangammarch Wells	3	27	41·3	45·5
	Cardiff	2	24	40·1	44·8
	Clifton	2	29	—	—
	Bath	—	—	41·8	45·3
	Plymouth	2	27	41·0	—
9.	Armagh	2	25	42·4	44·3
	Markree	3	21	42·8	45·5
10.	Dublin, Trin. Coll.	1	28	43·2	44·7
11.	Guernsey, Brooklyn	0	31	42·6	47·6

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	44	44	44·0
	Kirkwall	43	41	42·1
	Wick	? 45	? 45	? 45·0
SCOTLAND, E.	Cromarty	45	40	42·1
	Pennan Bay	43	41	41·7
	Aberdeen, Cove Bay	45	43	44·5
ENGLAND, N.E.	Burnmouth, Berwick	43	40	41·8
	Scarborough	45	41	43·3
ENGLAND, E.	Shipwash Lightship	44	43	43·6
	Margate‡	44	42	42·5
ENGLAND, S.E.	Eastbourne‡	44	43	43·6
SCOTLAND, W.	Lamlash	48	45	46·5
	Ballantrae	45	43	44·1
ENGLAND, N.W.	Port Erin	50	46	47·8
ENGLAND, S.W.	Newquay	48	46	46·8
	Plymouth‡	49	45	46·7
	Salcombe	48	45	46·7
IRELAND, N.W.	Sheephaven	47	45	46·0
	Teelin	48	40	44·2
IRELAND, S.W.	Cleggan	47	43	45·2
	Seafield	51	46	48·7
IRELAND, E.	.. ..	..	..	..

‡ Only one observation each day.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS ON PAGE 408.

No. of Ascent.	1	2	3	4	5	6	7	8	9	10	11	12	13
No. of Kites	—	—	—	1	1	1	1	1	1	1	1	1	2
Area of Surface (metres)	—	—	—	7·6	4	7·6	7	7·6	7·6	—	7·6	7	15·2
Length of Wire (metres)	—	—	—	—	900	—	1,500	—	—	600	—	1,900	—

CORRECTIONS AND ADDITIONS FOR NOVEMBER, 1909.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

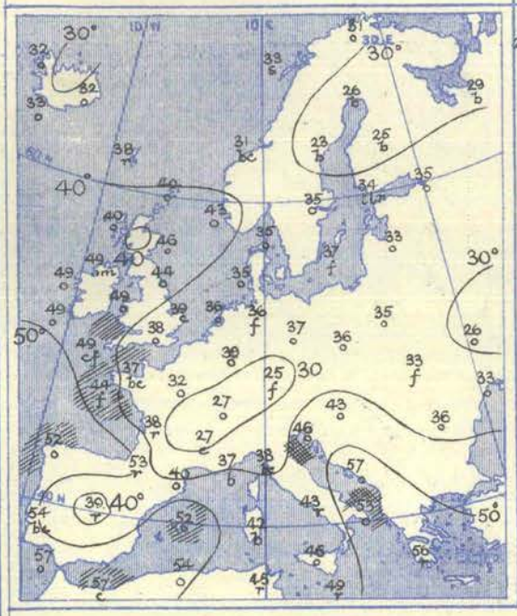
NUMBER AND PAGE OF REPORT.	NUMBERS OF DISTRICTS AND NAMES OF STATIONS.	Temperature. Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each Day.	For whole of each day.	Difference of Daily Mean for the Week from Average.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rain-Days.	Rainfall in the Week.	Difference from the Average for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Average for the Week.	Percentage of possible duration.	Difference from the Average for the Week.
District Values.—		°		°		°	°	°	°	Day-deg	Day-deg		Inches.	Inches.	Hrs.	Hrs.	%	%
No. 45, p. 362	9. Ireland, N.	—	—	—	—	—	—	—	—	—	—	—	0·47	−0·49	—	—	—	—
Station Values.— Additions.																		
No. 43, p. 347	Cromer	57	24th	31	26th	?49·2	38·6	43·7	−2·6	21	10	—	—	—	—	—	—	—
No. 45, p. 363	Cromer	54	12th	33	9th	49·6	39·0	44·3	0·0	29	8	4	0·09	—	27·5	—	44	—
Station Values.— Corrections.																		
No. 44, p. 355	Strathpeffer	—	—	—	—	—	39·9	45·6	+2·1	34	6	—	—	—	—	—	—	—
No. 45, p. 363	Wick	—	—	—	—	—	35·3	40·0	−3·4	—	26	—	—	—	—	—	—	—
No. 45, p. 363	Scarborough	—	—	—	—	—	—	—	—	—	—	—	0·11	−0·51	—	—	—	—
No. 45, p. 363	Hillington	—	—	—	—	—	33·7	41·4	−2·9	—	34	—	—	—	—	—	—	—
No. 45, p. 363	Buxton	—	—	—	—	45·0	—	39·0	−2·7	8	34	—	—	—	—	—	—	—
No. 45, p. 363	Dungeness	—	—	—	—	—	—	—	—	—	—	3	0·13	−0·49	—	—	—	—
No. 45, p. 363	Markree Castle	—	—	—	—	—	—	—	—	—	—	—	0·69	−0·28	—	—	—	—
No. 46, p. 371	Wick	—	—	—	—	—	24·6	31·3	−11·2	—	75	—	—	—	—	—	—	—
No. 46, p. 371	York	—	—	—	—	—	—	—	—	—	—	—	—	—	20·0	+10·0	34	+17
No. 46, p. 371	Cheadle	—	—	—	—	41·8	—	37·0	−5·3	0	—	—	—	—	—	—	—	—
No. 46, p. 371	Llangammarch	—	—	—	—	—	28·2	33·5	−9·1	—	60	—	—	—	—	—	—	—
No. 47, p. 379	Balta Sound	—	25, 26	—	—	43·5	—	40·5	—	4	20	—	—	—	—	—	—	—
No. 47, p. 379	Glencarron	50	—	30	—	44·0	34·7	39·4	−1·0	—	27	—	0·70	−1·43	—	—	—	—
No. 47, p. 379	Lincoln	—	—	—	—	—	—	—	—	—	—	2	0·06	−0·36	—	—	—	—
No. 47, p. 379	Cromer	—	21, 22, 25	—	—	44·5	—	39·9	−2·3	7	—	—	—	—	—	—	—	—
No. 47, p. 379	Falmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	55	+28
No. 48, p. 387	Hillington	—	—	—	—	—	38·0	42·7	+2·2	22	11	—	—	—	—	—	—	—

		Grass Min. No. of Days.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
Station Values.— Additions.					
No. 47, p. 380	Canterbury	6	27	38·6	43·9
Station Values.— Correction.					
No. 44, p. 356	Yarmouth	—	—	47·6	52·0
No. 45, p. 364	Southport	—	17	—	—
No. 48, p. 388	Durham	—	25	—	—

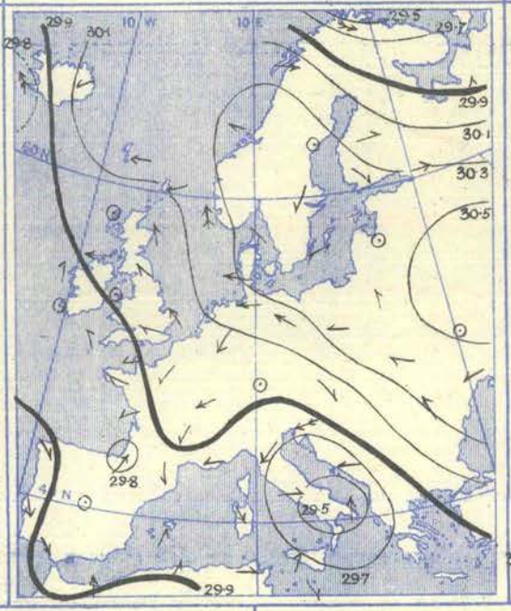
No. 43, p. 352, Howard Estate, Glossop, No. 12, Oct. 27th, 3.17 p.m. to 4.15 p.m., at Greatest Height, Temperature 263·2.
No. 45, p. 368, Howard Estate, Glossop, No. 8, Nov. 13th, 12.30 p.m. to 3.15 p.m., at Greatest Height, Metres, 2,900.
No. 47, p. 384, Howard Estate, Glossop, No. 5, Date of observation for Nov. 22nd read Nov. 27th.

Sunday, 12th December, 1909.

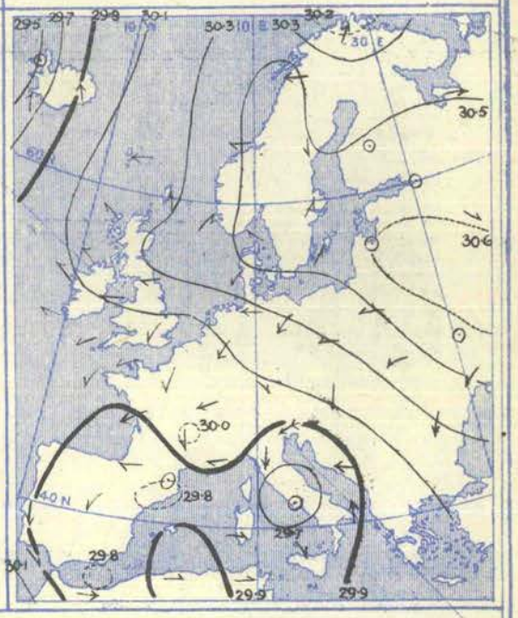
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast over the greater portion of our area, with rain at several stations in the south, and also in Ireland, and at Cracow. Snow falling at Bodö, and a thunderstorm in progress at Hangö. A little rain later in various parts of these Islands, and larger quantities in Italy, Algeria, and at Bilbao.

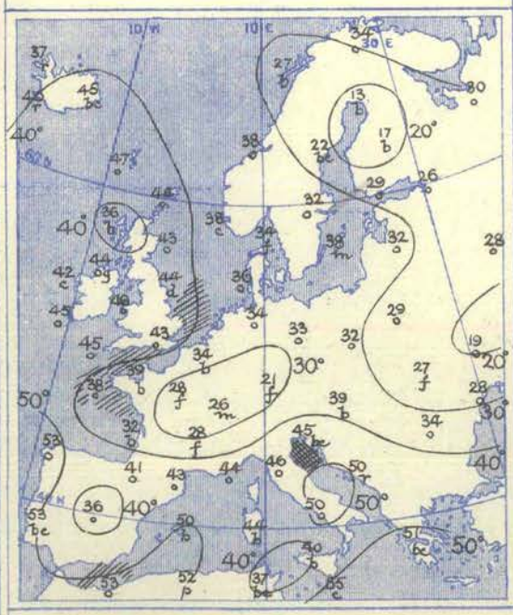
Temperature fallen in most regions. Morning readings ranging from below 32° in the extreme east and north-east of our area, and also in Bavaria and the east of France, to nearly 50° on the west coast of Ireland, and to between 45° and 55° at most places in the far south of our area. Maxima during day above 50° on our extreme west and south-west coasts, and above 60° at a few stations in the south of Europe and north of Africa; below 40° over a considerable portion of the Continent, and below 32° in some north-eastern regions and at Belfort.

Wind in morning cyclonic in the extreme south and north of Europe, and also in Iceland, but anticyclonic over the intervening region. Strong to high from various quarters over Italy and the adjacent Islands, a Westerly gale blowing at Vardö, and a Southerly gale in the south-west of Iceland. Southerly and South-Easterly breezes of little force prevailing in these Islands. No change of a general character later in day; an Easterly gale continuing at Trieste, and a high wind from West setting in at Nemours.

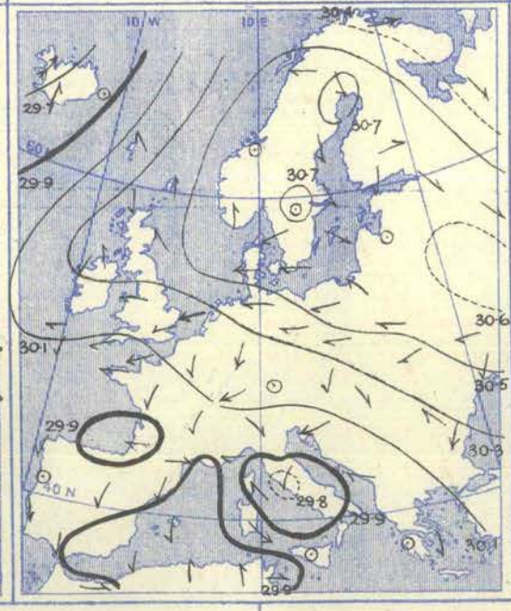
Barometer in morning above 30·6 ins. in Little Russia, and relatively high in an anticyclonic band extending thence to beyond the west coast of Norway. Below 29·7 ins. in a depression near Biarritz, below 29·5 ins. in another over the south of Italy, and not much higher to the westward of Iceland. Pressure giving way over Iceland during day, but rising over these Islands and northern Europe, and anticyclonic system maintaining its position. Little modification occurring in the south of our area.

Monday, 13th December, 1909.

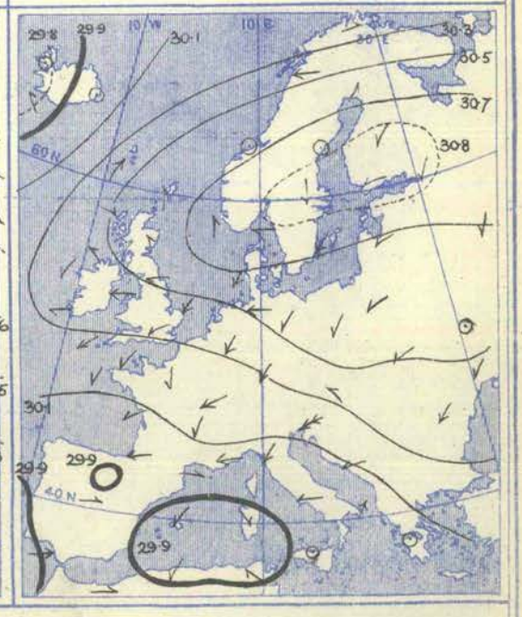
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright at most places in the south of our area, and in the northern half of Scandinavia; very cloudy or overcast generally elsewhere, with rain in several parts of Great Britain. Rain also falling at Lesina, Rome, Lugano, and Bilbao. Heavy rain later at some stations in Italy, but condition continuing dry over Europe as a whole.

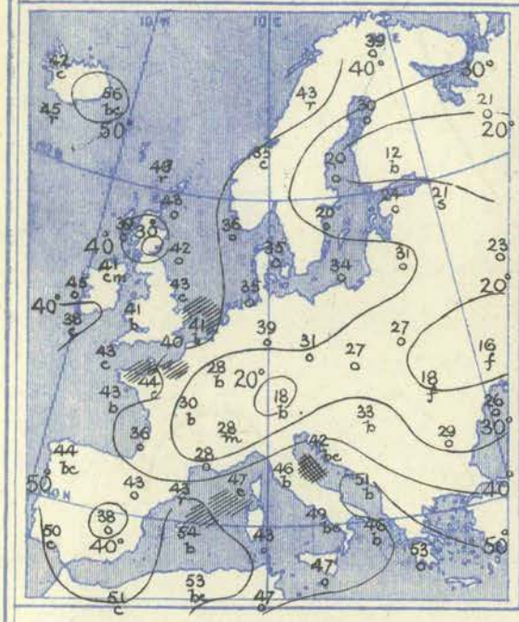
Temperature fallen in Ireland, Scotland, and over a large portion of the Continent. Morning readings below 32° in central Scotland and over most of the mainland of Europe, but above it over Ireland, England, and the southern Peninsulas of the Continent, and as high as 55° at Malta. Maxima during day only 32° at Nairn, but above 40° over these Islands generally. Thermometer rising to about 60° at some places in the far south of our area, but only touching 50° at Nice, remaining below 40° in nearly the whole of central Europe, and below freezing point at Cracow and Lemberg.

Wind in morning showing a vast anticyclonic movement over the northern regions of Europe, and two cyclonic circulations in the south. Easterly current blowing a gale at Trieste, and a fresh or strong breeze in the north of Italy. Moderate in most other districts, but a gale from South-West prevailing in the west of Iceland. No important change during day; Easterly wind increasing somewhat on the south-east coast of England. Gale in Iceland subsiding.

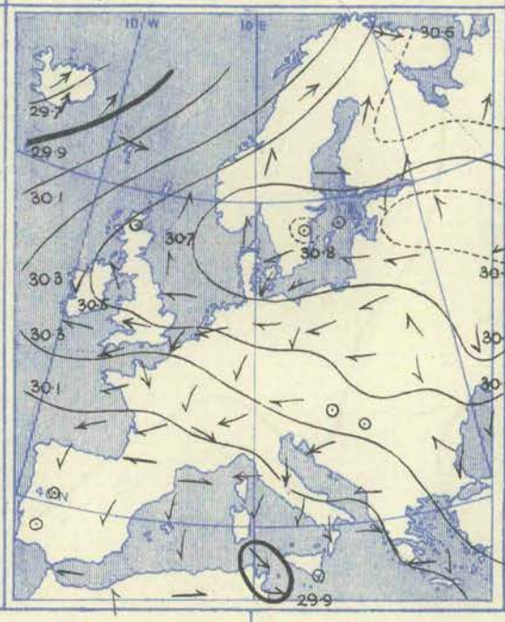
Barometer in morning above 30·6 ins. in a large high pressure having its maximum over Scandinavia. Below 29·9 ins. in two minima in the south of our area, and less than 29·7 ins. in the north-west of Iceland. Pressure giving way during day in the extreme north of Europe, but increasing generally, and depressions in south nearly dispersing by evening. Barometer rising again in Iceland, but beginning to fall in the Azores.

Tuesday, 14th December, 1909.

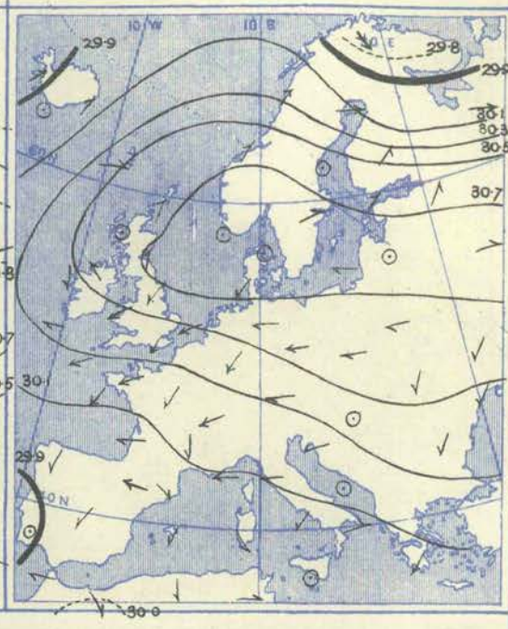
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our area, with rain at Bodö and a few places in the south of Europe, and snow at St. Petersburg. Fair to bright at most stations in the Mediterranean region. Remaining dry over the United Kingdom and most of the Continent, but considerable amounts of rain falling in some parts of the Spanish Peninsula, and nearly an inch and a half at Perpignan and its neighbourhood.

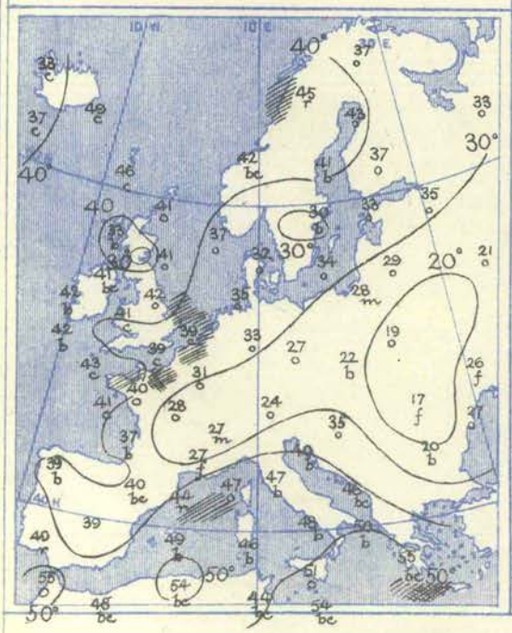
Temperature fallen generally, but risen in the north of Scandinavia. Morning readings below 20° in many parts of Russia and Finland, and also in Bavaria, and below 32° over the major portion of our area; above 40° in most parts of these Islands and in southern Europe, and above 50° at various stations in the extreme south. Maxima during day below 32° at Nairn and in some parts of central and northern Europe, and below 40° over a considerable portion of France; above 55° very generally in the far south of our area, and about 60° in places. Frost at night very sharp in the north-east of Scotland.

Wind in morning anticyclonic except in the south and extreme north-west of our area. Easterly current strong to high on the south and south-east coasts of this country and over the north of the Adriatic, and the South-Westerly current strong to high in Iceland and the north-west of Norway. No important change later in day; force decreasing in Iceland, but increasing to a strong gale at Bodö.

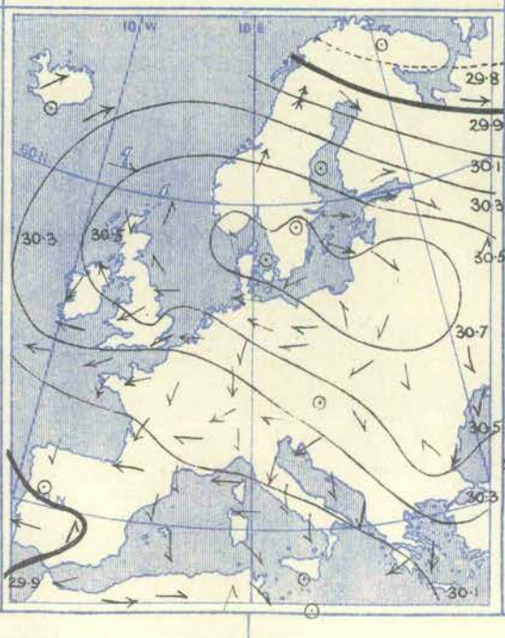
Barometer in morning above 30·8 ins. in the central area of a large anticyclone in the north of the Continent. Below 29·9 ins. in a shallow depression over the Mediterranean, and below 29·7 ins. in the north-west of Iceland, and also over the Azores. Very little modification occurring in the general distribution of pressure during day, but barometer rising decidedly in Iceland, and falling briskly in the Azores and the region surrounding. Mediterranean depression partially dispersing.

Wednesday, 15th December, 1909.

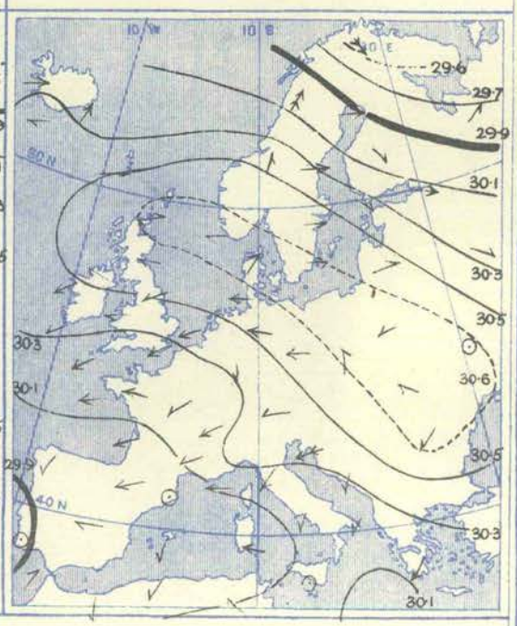
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



6 p.m.



Weather in morning fair to bright in Ireland, on most shores of the Mediterranean, and in some localities elsewhere, but very cloudy or quite overcast over the greater portion of our area, with rain at Spurn Head, Bodö, some stations in the Spanish Peninsula, and also at Perpignan. A little rain later in several parts of these Islands, and larger quantities in Spain. About 2 inches of rain falling at Cape Béarn, 3 inches at Perpignan, and nearly 2 inches at Bodö.

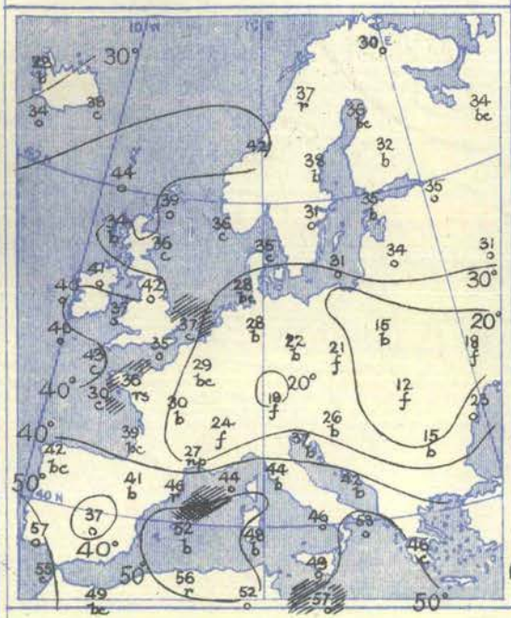
Temperature fallen generally, risen in the extreme north of our area. Morning readings below the freezing point over nearly the whole of Russia and the central countries, and also in central Scotland; above 40° in the north of Scandinavia and in many parts of the United Kingdom, and above 50° at a few places in the far south of Europe and on the north coast of Africa. Maximum during day only 31° at Nairn, but above 40° at most of our stations. Frost continuing all day over a large portion of central Europe and the east of France, and thermometer remaining below 55° except at some places in the extreme south.

Wind in morning showing a vast anticyclonic circulation. Easterly current strong to high on the east and south coasts of England, the north coast of France, and at Trieste, and a gale from South-West prevailing at Bodö. Little force generally elsewhere, but a high wind from the Northward blowing at Athens. No important change during day; Easterly wind increasing to a gale at Trieste.

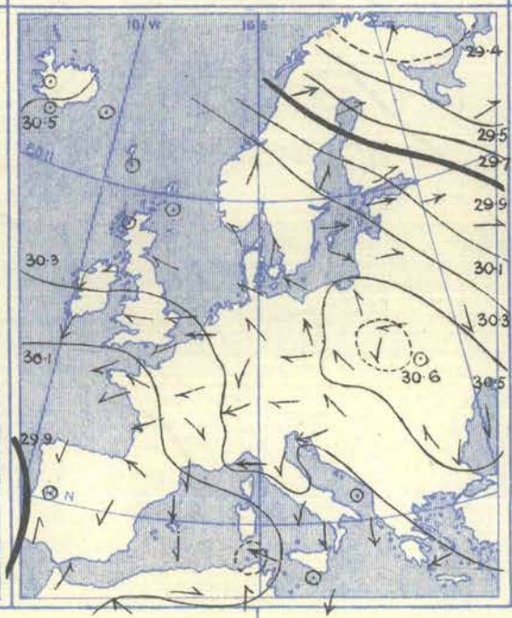
Barometer in morning ranging from above 30·7 ins. in a very large anticyclone having its maximum over the Baltic and its vicinity to below 29·8 ins. in the extreme north of Norway, and to below 29·1 ins. at the Azores. Pressure giving way later over the United Kingdom, rather decidedly in the south-east and south of England, but very little modification taking place in the general distribution over our area as a whole.

Thursday, 16th December, 1909.

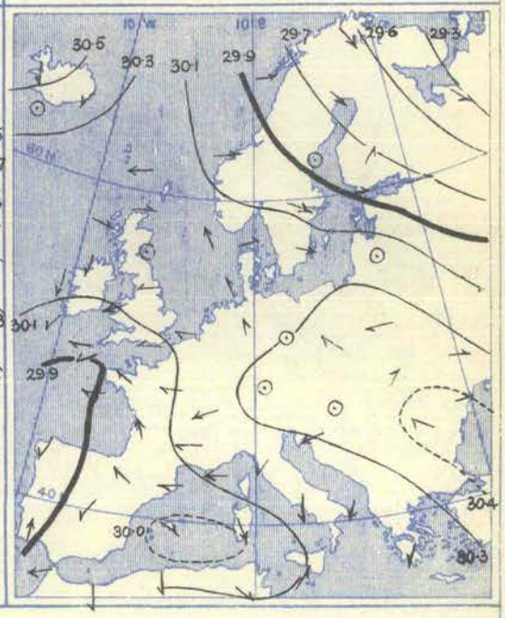
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair to bright over considerable areas on the Continent, but cloudy or overcast in most places. Rain or snow falling at some stations in the north of Europe, snow at Oxford and Portland Bill, sleet at Jersey, and rain or hail in some French localities. Rain, with some sleet and snow in places, falling later over the greater part of the United Kingdom; more than 0·5 in. in several southern localities, and as much as 2·1 ins. at Portland Bill. Snow experienced in Norway, and rain in the west of France and on some shores of the Mediterranean.

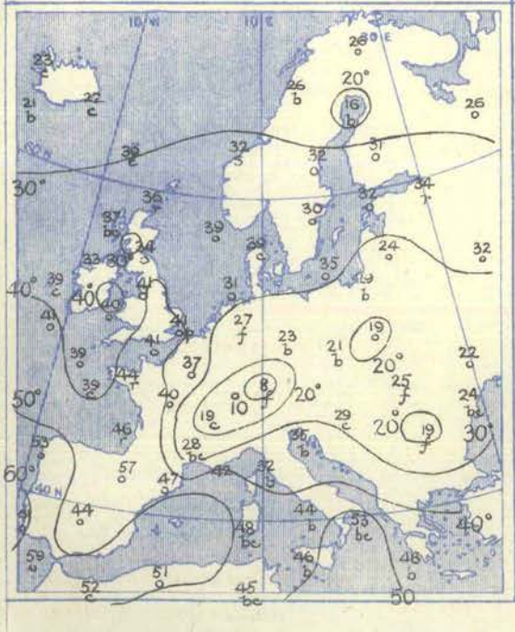
Temperature fallen as a whole. Morning readings ranging from about 55° at a few places in the extreme south of our area to 29° at Nairn, much below 32° over the greater portion of central and eastern Europe, and to below 20° in places. Lowest value, 12° at Lemberg. Maxima during day above 40° at most of our own stations, but only 32° at Nairn. Thermometer remaining below 32° over a large area in central Europe, but rising to about 60° at many places in the far south, and touching 66° at Algiers.

Wind in morning mainly cyclonic over the Mediterranean and the southern half of these Islands, and also in the far north of Europe, anticyclonic elsewhere. Little strength generally, but Westerly current strong to a gale in Scandinavia, and that from the Eastward strong at Portland Bill and fresh on some shores of the Mediterranean. No change of importance taking place during day.

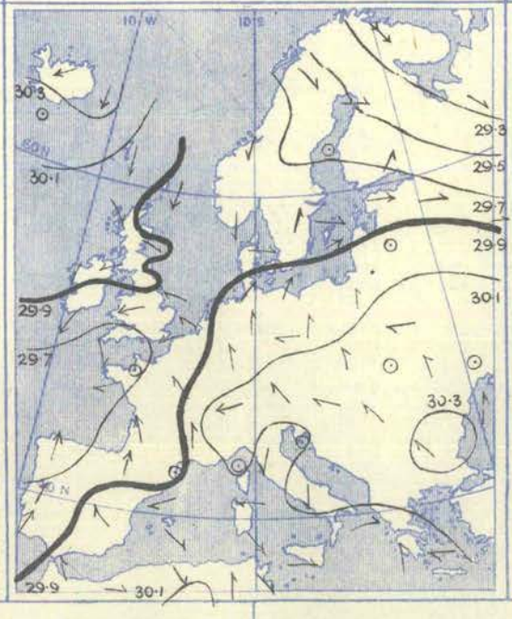
Barometer in morning above 30·6 ins. in Poland in the central portion of a very large high pressure system, and relatively high in a broad band stretching from the upper part of the North Sea to the Black Sea. Below 29·4 ins. in the extreme north of Norway, below 30·0 ins. in some feeble and ill-defined disturbances over the Bay of Biscay and the western half of the Mediterranean, and below 29·0 ins. in a very large system having its minimum near the Azores. Pressure giving way very generally and rather decidedly over the Baltic and the central countries of Europe, and also over these Islands, and general distribution becoming less regular.

Friday, 17th December, 1909.

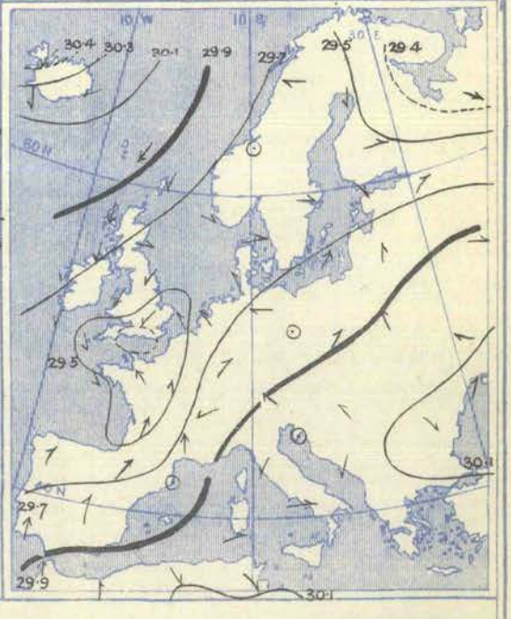
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair to fine and bright over the greater part of our area, but rain falling in several English districts and in the west of France, and rain or snow at some stations in the north of the Continent. More or less rain later in nearly all parts of these Islands, and considerable amounts in France and the Netherlands, as well as at Madrid and Leghorn.

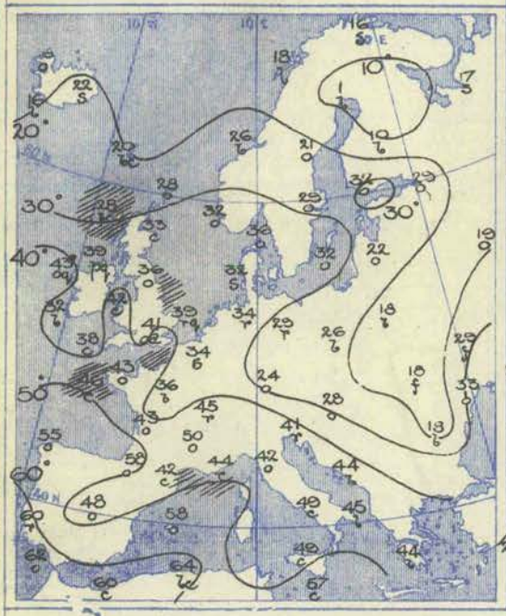
Temperature risen in England and the nearer regions of the Continent, fallen generally elsewhere. Morning readings ranging from 8° at Munich, below 20° in Poland and the north of Sweden, and below 32° over most of the mainland of Europe, to above 55° at some places in the far south, and to 61° at Lisbon. Thermometer remaining below 32° all day over the greater portion of central Europe, and below 40° in several parts of Scotland, and also at Birr Castle, but rising to above 60° at several stations on the shores of the Mediterranean, and touching 68° at San Fernando, Nemours, and Algiers.

Wind in morning varying a good deal; mainly anticyclonic over the central and eastern regions, and cyclonic elsewhere. A North-Westerly gale prevailing in the extreme north of Norway, but little force generally. A definite cyclonic circulation setting in later over the English Channel and its vicinity, but force remaining light or moderate.

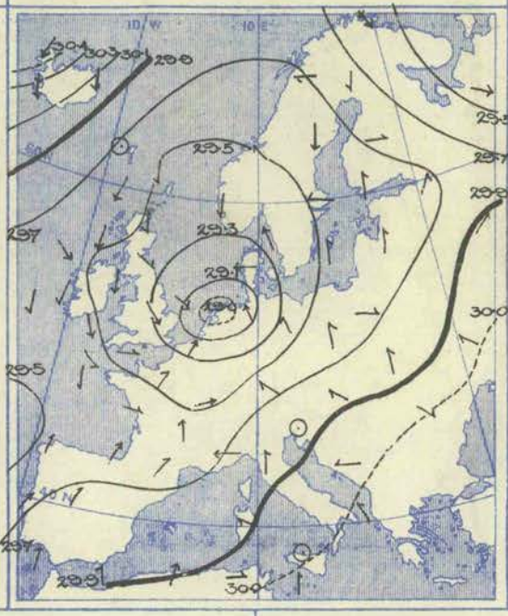
Barometer in morning above 30·3 ins. in Iceland, and above 30·2 ins. over the Black Sea and the surrounding regions; below 29·7 ins. over the south-west of this country and the Bay of Biscay, and below 29·3 ins. at the Azores, and also over the White Sea. A separate minimum forming during day over the English Channel, and pressure decreasing over the greater part of our area. General distribution becoming more irregular, but gradient remaining slight to moderate.

Saturday, 18th December, 1909.

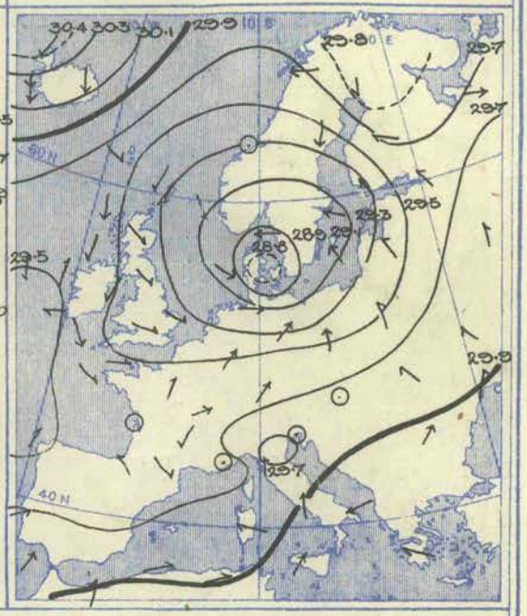
Temperature and Weather. — 7 a.m.



Barometer and Wind. — 7 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning cloudy or dull, with rain in places, over these Islands and the nearer regions of the Continent, as well as at Lisbon, in the north of Italy, and on the Riviera. Overcast to fair or fine and bright in other parts of our area. Snow showers later in many parts of this country, and rain or snow over a large area on the Continent, amounts heavy in several places; as much as 1·9 in. measured at Trieste.

Temperature risen in most parts of southern Europe, Germany, the east of France, and Denmark, fallen in most other regions. Readings in morning very little above zero in the north of Sweden, and below 20° over a large area in the north-east of Europe, and below 30° in Austria and South Germany. Above 50° on several shores of the Mediterranean, and above 60° on the coast of Algeria. Thermometer remaining as low as 32° all day at Nairn and 30° at Stornoway, but rising to about 40° in many parts of England. Maxima low over the central countries of Europe, but above 60° at some southern stations, and above 70° on the coast of Algeria. In the latter region the sirocco was experienced.

Wind in morning mainly cyclonic, the chief circulation being round the Netherlands; fresh to strong in many places, and high to a gale in Iceland. Strong winds or gales from the West or North-West prevailing in the extreme north of the Continent. No general change later in day; a gale from West South-West setting in at Swinemünde. Becoming very variable on the west coast of Ireland.

Barometer in morning above 30·4 ins. in the north-west of Iceland, and above 30·0 ins. in the south-east of Europe; below 29·0 ins. in a well-marked depression having its minimum near the Helder, and relatively low both in the Azores and the extreme north-east of Europe. Depression travelling north-eastward during day and increasing in depth; pressure rising very decidedly in the south-east of England and the Netherlands, but falling in Ireland and Scotland.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second). *See* also p. 404.

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.	Metres.	Remarks.
1	1909. Dec. 8th, 12.5 p.m. to 2.15 p.m.	Aldershot, 80 m.	Temperature Humidity .. Wind	278° 90% 315°,		275° 70%					274° 70%	600	
2	Dec. 9th, not stated.	Aldershot, 80 m.	Temperature Humidity .. Wind	273° 100% 225°,		276° 100%						500	
3	Dec. 10th, 9.35 a.m to 1.15 p.m.	Aldershot, 80 m.	Temperature Humidity .. Wind	279° 100% 225°,		277 ?° 100%					276° ? 100%	700?	Wind, S.W., very strong. Raining all day. Kite broke away at 1.15 p.m. Wind and temp. traces much blurred.
4	Dec. 13th, 10.30 a.m. to 12.10 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	276° 98% 79°, 11	275° 98% 89°, 113, 9	274·3° 82 to 100% 94°, 15	277°, 6 67 to 83% 117°, 16				277·6° 69% 110°, 16	1,410	Overcast. Wind changed during ascent and decreased greatly in velocity. Kite fell even though being wound in at top speed. Clouds, Ni.
5	Dec. 14th, 9.55 a.m. to 10.40 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	276° 80% 45°, 7	275·5° 80% 45°, 12	273·5° 100% 70°, 18					279° 80% 90°, 25	900	Thin clouds at 450 m. Inversion, 273° to 279°, at 600 m.
6	Dec. 14th, 2.30 p.m. to 4.10 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	273·2° 99% 45°, 9	272° 100% 60°, 12	271·5° 100% 70°, 13	270° 100% 86°, 19				265·5° 100% 88°, 22	1,240	Overcast and dull. Fresh breeze. Clouds, Ni.
7	Dec. 15th, 10.0 a.m. to 10.45 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	276° 80% 45°, 6	275° 80% 45°, 9	272° 95% 60°, 16	270° 100% 70°, 18				268·5° 100% 70°, 19	1,370	Overcast. Very gusty. Wire covered with ice.
8	Dec. 15th, 2.35 p.m. to 3.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	273·8° 100% 45°, 13	273° 99% —°, 15	272·6° 98% —°, 17	269·9° 90% —°, 20				269·9° 90% —°, 20	1,030	Fair to overcast. High wind. Clouds, Cu. and Cu.-Ni.
9	Dec. 16th, 2.30 p.m. to 3.42 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	272·6° 100% 90°, 11	273° 94% 105°, 11	273° 92% 110°, 10					273·1° 87% 155°, 17	1,100	Fair to overcast. Wind variable, mainly E., fresh to strong. Clouds, Cu.-Ni. and Ni.
10	Dec. 17th, 10.27 a.m. to 11.20 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	277° 100% 90°, 6	276·5° 100% 100°, 9	275·5° 100% 120°, 9					277·5° 80% 135°, 9	700	Fog on ground. Occasional breaks.
11	Dec. 17th, 3.30 p.m. to 4.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	274·3° 100% Variable, 3·1	274·3° 92% Variable, 6·5	274·1° 86% Variable, 8·5	273° 80% Variable, 9				272° 78% 82, 10	1,240	Overcast and dull. Wind variable, calm at times, with short intervals of gentle to moderate breezes. Clouds, Ni.
12	Dec. 18th, 10.10 a.m. to 11.16 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature Humidity .. Wind	275° 90% 270°, 6	274·5° 90% 280°, 9	272°, 5 100% 290°, 12	271·5° 100% 205°, 14	270° 100% 215°, 15				1,500	Overcast. Clouds at 350 m. Very steady wind.
13	Dec. 18th, 10.20 a.m. to 12.5 p.m.	Howard Estate, Glossop, 335 m.	Temperature Humidity .. Wind	272·6° 90% 315°, 4	271·5° 91% 323°, 6	271° 92% 325°, 8	268° 78 to 100% 329°, 12	264·5° 95% 321°, 15			263° 94% 317°, 17	1,850	Fair early, overcast later, with heavy fall of snow. Light to gentle breezes. Clouds, Cu., Ni.-Cu., Ci.-Cu.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 51. FIFTY-FIRST WEEK, SUNDAY DECEMBER 19TH TO SATURDAY DECEMBER 25TH, 1909. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather was very unsettled, especially in the earlier half of the week, when heavy falls of rain occurred in most of the southern districts and severe snowstorms further north. The latter appear to have been heaviest over the northern and midland counties of England. Thunder and lightning were experienced in Wales and the north-west of England on Sunday night.

Temperature was below the average, the deficit amounting to rather more than 6° in Scotland East and West, and to more than 7° in Scotland N. In England E. the divergence from the normal was only 0°·8. The highest of the maxima occurred pretty generally on the 23rd, but at some western and northern stations on the 25th; they ranged from 56° in the English Channel, and 54° or 53° in most of the English districts and in Ireland S., to 49° in Scotland N., and to 48° in Scotland E. The absolute minima, which were recorded mainly on the 20th or 21st, were extremely low. In the Midland Counties and Ireland S. (at Bawtry and Kilkenny) the thermometer fell to 8°, in England S.W. (at Llangammarch Wells) to 9°, and in many other parts of the Kingdom to between 10° and 15°. The lowest grass values were 4° at Balmoral, 5° at Buxton, 6° at West Linton, 7° at Armagh, 9° at Hereford, and 10° at Crathes, Hull and Dublin. At Worksop the values for which stations are not included in Table III., the thermometer on the morning of the 21st fell to 5° in the screen, and to −7° on the surface of the snow.

Mean Temperature of the Sea.—At every station except Aberdeen the water was colder than during the corresponding period of last year, the difference being more than 7° at Kirkwall, and about 5° in several other places. The means for the week ranged from 47° at Newquay, and 46°·4 at Seafield to rather less than 40° at some places on the north-east coast of Britain, and to 37°·8 at Kirkwall.

Rainfall exceeded the normal in all districts excepting Scotland E., but the excess was very slight in Scotland N. and W., as well as in the English Channel. Over England and Ireland generally the amount was very large, the heaviest individual falls occurring on Tuesday, when amounts ranging between 1·0 and 1·5 inch were collected at many western and southern stations, and as much as 2·0 inches at Torquay, 1·8 inch at Falmouth, and 1·7 inch at Plymouth.

Bright Sunshine was more than the average, the excess being very trifling in the English Channel, but large over the country as a whole. The percentage of the possible duration ranged from 39 in England E., 37 in England S.E. and 35 in Scotland E. to 24 in the English Channel, and to 18 in Scotland N.

Barometer and Wind.—Cyclonic conditions prevailed very generally. At the commencement of the week the centre of a disturbance with rather steep gradients lay over the western districts and subsequently moved somewhat quickly to the North Sea. During its passage strong winds from South-East and East, were experienced in the north of England, and strong winds or gales from the South-Westward in the south. The centre of the next system travelled in a northerly direction on the Atlantic, thus causing the wind to draw into South in the southern districts, with gale force and to become more Southerly in the North. From this time the barometer became highest over France and Germany and lowest in the north-west and north of the United Kingdom, so that the wind became Southerly to Westerly very generally, but in the absence of any very deep disturbance it was moderate in force.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 364.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Very deficient	Very deficient	Deficient	Moderate	Deficient	Deficient	Very deficient	Deficient	Deficient	Very deficient	Very deficient	Moderate
	Rainfall ...	Moderate	Moderate	Very heavy	Very heavy	Very heavy	Heavy	Moderate	Very heavy	Heavy	Heavy	Heavy	Moderate
	Sunshine ...	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant	Very abundant	Abundant	Abundant	Abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 3 weeks from Dec. 5th, 1909.	Warmth ...	0 * 3	0 * 2	0 * 2	0 * 0	0 * 1	0 * 2	0 * 2	0 * 2	0 * 3	0 * 2	0 * 2	0 * 2
	Rainfall ...	0 * 1	1 * 1	2 * 0	3 * 0	3 * 0	2 * 0	1 * 1	2 * 0	2 * 0	1 * 1	1 * 1	0 * 1
	Sunshine ...	3 * 0	2 * 0	1 * 1	2 * 1	1 * 1	2 * 1	1 * 0	1 * 0	1 * 0	1 * 1	1 * 0	0 * 1

PAST SEASONS.

WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4
AUTUMN, 1909. Sept. 5th–Dec. 4th. 13 weeks.	Warmth ...	2 * 6	3 * 5	2 * 6	4 * 5	4 * 5	3 * 6	3 * 7	3 * 6	3 * 6	4 * 7	4 * 6	3 * 5
	Rainfall ...	5 * 7	5 * 4	1 * 4	3 * 1	3 * 4	5 * 4	4 * 5	4 * 6	4 * 5	4 * 7	5 * 8	5 * 5
	Sunshine ...	5 * 2	5 * 3	3 * 5	2 * 6	2 * 5	3 * 2	5 * 5	5 * 2	4 * 4	5 * 2	5 * 2	4 * 5

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UNITED KINGDOM FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIFTY-FIRST WEEK—December 19th to December 25th, 1909.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees: Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.	S		%	%
0. SCOTLAND, NORTH	49	11	37·2	25·1	31·4	− 7·3	0	− 8	74	+ 43	6	+ 1	1·24	+0·04	S	+ 4	18	+ 9
Eastern																		
1. SCOTLAND, EAST	48	10	37·2	24·6	31·2	− 6·1	0	− 7	76	+ 35	4	+ 1	0·51	−0·06	16	+ 10	35	+21
2. ENGLAND, N.E.	50	10	39·4	27·4	33·6	− 4·9	0	− 8	59	+ 26	5	+ 1	1·26	+0·77	16	+ 8	33	+17
3. ENGLAND, EAST	54	18	43·6	30·6	37·3	− 0·8	4	− 4	42	+ 4	6	+ 3	0·92	+0·57	20	+ 11	39	+21
4. MIDLAND COUNTIES	54	8	43·1	26·9	35·4	− 2·6	3	− 6	56	+ 17	6	+ 3	1·35	+0·89	17	+ 10	34	+19
5. ENGLAND, S.E.	54	17	46·3	31·5	39·2	− 1·0	12	− 2	42	+ 15	6	+ 3	1·14	+0·66	20	+ 10	37	+18
Western																		
6. SCOTLAND, WEST	50	13	39·5	28·0	34·0	− 6·0	0	− 11	56	+ 30	5	+ 1	1·18	+0·08	14	+ 8	28	+16
7. ENGLAND, N.W.	53	14	40·7	29·3	35·2	− 4·5	0	− 11	48	+ 21	7	+ 4	1·74	+1·09	15	+ 8	30	+16
8. ENGLAND, S.W.	53	9	46·3	33·3	40·1	− 1·8	12	− 6	36	+ 18	6	+ 2	1·67	+0·76	15	+ 6	29	+11
9. IRELAND, NORTH	50	12	40·7	28·8	35·0	− 5·9	0	− 13	49	+ 27	7	+ 2	1·22	+0·41	16	+ 8	33	+17
10. IRELAND, SOUTH	53	8	43·7	29·4	36·8	− 5·9	5	− 17	47	+ 30	6	+ 2	1·37	+0·36	15	+ 4	28	+ 8
11. ENGLISH CHANNEL	56	30	49·8	38·3	44·3	− 2·7	32	+ 2	10	+ 5	6	+ 1	0·78	+0·04	13	0	24	0

THE SEASON (Winter).—Aggregates, &c., for the Period of 3 Weeks, December 5th to December 25th, 1909.

0. SCOTLAND, NORTH	54	11	*	*	*	*	0	− 27	168	+ 80	15	− 1	3·10	−1·06	23	+ 10	17	+ 7
Eastern																		
1. SCOTLAND, EAST	56	0	*	*	*	*	0	− 24	164	+ 51	11	− 2	1·70	−0·33	34	+ 13	24	+ 9
2. ENGLAND, N.E.	54	10	*	*	*	*	3	− 25	112	+ 23	13	+ 2	2·62	+1·00	28	+ 2	18	+ 1
3. ENGLAND, EAST	54	18	*	*	*	*	5	− 26	98	− 4	15	+ 3	2·54	+1·19	36	+ 7	23	+ 4
4. MIDLAND COUNTIES	54	8	*	*	*	*	6	− 27	123	+ 17	15	+ 4	2·92	+1·32	28	+ 3	18	+ 2
5. ENGLAND, S.E.	54	17	*	*	*	*	17	− 33	102	+ 31	15	+ 3	2·90	+1·11	40	+ 9	25	+ 6
Western																		
6. SCOTLAND, WEST	55	12	*	*	*	*	2	− 37	123	+ 56	10	− 4	3·43	−0·27	28	+ 7	19	+ 5
7. ENGLAND, N.W.	56	14	*	*	*	*	6	− 33	102	+ 32	15	+ 2	3·37	+1·03	29	+ 7	19	+ 5
8. ENGLAND, S.W.	53	9	*	*	*	*	23	− 40	89	+ 40	15	+ 1	4·23	+1·10	37	+ 6	23	+ 4
9. IRELAND, NORTH	56	12	*	*	*	*	14	− 28	98	+ 34	15	− 1	2·27	−0·33	29	+ 3	19	+ 2
10. IRELAND, SOUTH	56	8	*	*	*	*	22	− 48	92	+ 44	15	+ 1	2·68	−0·37	35	+ 3	22	+ 2
11. ENGLISH CHANNEL	56	30	*	*	*	*	61	− 40	34	+ 22	16	+ 1	2·26	−0·47	32	− 7	19	− 4

THE YEAR.—Aggregates, &c., for the Period of 51 Weeks, January 3rd to December 25th, 1909.

0. SCOTLAND, NORTH	72	11	*	*	*	*	1872	−233	899	+137	243	+ 1	43·57	−7·60	1155	+ 50	26	+ 1
Eastern																		
1. SCOTLAND, EAST	80	0	*	*	*	*	2048	−299	1080	+195	203	+ 4	31·90	+1·74	1323	− 1	30	0
2. ENGLAND, N.E.	85	10	*	*	*	*	2540	− 94	837	+188	188	+ 7	26·91	+2·54	1394	− 45	32	− 1
3. ENGLAND, EAST	85	12	*	*	*	*	2853	−186	753	+ 30	197	+22	25·79	+2·66	1608	+ 40	37	+ 1
4. MIDLAND COUNTIES	86	8	*	*	*	*	2758	−195	925	+168	187	+14	27·58	+1·86	1439	+ 45	33	+ 1
5. ENGLAND, S.E.	86	0	*	*	*	*	3001	−316	684	+165	182	+14	31·95	+5·56	1732	+145	40	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2353	−220	768	+194	194	−15	45·72	−1·34	1421	+ 67	33	+ 2
7. ENGLAND, N.W.	82	10	*	*	*	*	2568	−246	700	+182	198	+ 5	36·65	+2·54	1504	+129	35	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2894	−282	569	+168	196	+ 3	37·16	−0·55	1690	+139	39	+ 3
9. IRELAND, NORTH	78	12	*	*	*	*	2555	−136	570	+ 90	229	+ 1	35·26	−2·21	1287	+ 14	30	0
10. IRELAND, SOUTH	81	8	*	*	*	*	2996	−135	489	+122	216	+13	34·05	−5·08	1498	+ 61	34	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	3667	− 97	207	+ 82	185	−22	29·98	−1·91	1967	+ 83	45	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.

‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked M or S are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				Names of Stations.
		Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N. (a, Islands.)	*p Balta Sound* S	*43*	*23rd*	*23*	*21st*	*38·5*	*30·9*	*34·9*	—	*0*	*50*	7	*1·54*	—	*4·3*	—	*12*	—	*Balta Sound.*
	a Sumburgh Head ..	44	23rd	19	21st	39·1	25·1	32·4	− 7·8	0	67	6	2·19	+ 1·15	7·1	+ 1·3	17	+ 3	Deerness.
	a Stornoway	49	25th	23	19th	38·9	28·9	34·1	− 5·7	0	55	7	1·10	− 0·35	10·3	+ 5·0	24	+12	Stornoway.
	a Castlebay, Barra Isd.	*50*	*25th*	*27*	*19th, 20th*	*42·5*	*31·4*	*37·4*	− *5·1*	*3*	*39*	*6*	*1·14*	—	*10·9*	—	*24*	—	*Castlebay.*
(a, Islands.)	*a* Wick	44	23rd	18	21st	38·6	27·3	35·2	− 5·8	0	62	4	0·72	+ 0·05	*	*	*	*	
(a, Islands.)	*p* Strathpeffer ..	40	23rd	17	22nd	36·7	24·8	31·0	− 6·1	0	77	5	1·21	+ 0·43	7·7	+ 0·9	17	+ 2	Strathpeffer.
(b, Mainland.)	*p* Glencarron .. S	40	23rd, 25th	14	19th	35·5	23·2	29·6	− 7·4	0	87	6	1·33	− 1·05	*	*	*	*	
(b, Mainland.)	*p* Fort Augustus S	41	23rd	12	19th	34·8	23·0	29·1	− 9·3	0	90	6	0·73	− 0·57	6·5	+ 4·1	14	+ 9	Fort Augustus.
(b, Mainland.)	*p* Fort William S	45	23rd	11	20th	36·7	23·6	30·4	− 9·6	0	81	6	1·43	− 0·83	*	*	*	*	
1. SCOTLAND E.	*p* Gordon Castle S	44	23rd	17	21st	36·7	26·2	31·7	− 6·7	0	72	3	0·28	− 0·34	*16·6*	—	*37*	—	*Gordon Castle.*
1. SCOTLAND E.	*a* Nairn	42	25th	18	22nd	36·4	25·3	31·1	− 6·4	0	76	5	0·20	− 0·30	14·6	—	32	—	Nairn.
1. SCOTLAND E.	*a* Aberdeen	44	23rd	24	19, 20, 22nd	38·0	27·9	33·2	− 4·9	0	62	4	0·74	+ 0·09	16·1	+ 7·7	36	+17	Aberdeen.
1. SCOTLAND E.	*a* Balmoral .. S	44	25th	10	19, 21, 22nd	40·1	17·0	29·0	− 5·8	0	91	3	0·23	− 0·49	15·0	—	33	—	Crathes S.
1. SCOTLAND E.	*p* Crieff .. .. S	42	23rd	18	22nd	36·6	24·2	30·7	− 6·9	0	79	4	1·09	+ 0·15	21·2	—	46	—	Balruddery
1. SCOTLAND E.	*a* Leith	48	25th	24	22nd	39·7	29·6	34·9	− 4·6	0	50	5	0·35	− 0·07	15·2	+10·5	32	+22	Edinburgh.
1. SCOTLAND E.	*a* West Linton .. S	44	25th	15	22nd	34·9	21·8	28·6	− 8·1	0	94	6	0·78	—	*18·4*	—	*29*	—	*West Linton.*
1. SCOTLAND E.	*p* Marchmont .. S	42	23rd	18	21st	35·3	24·9	30·3	− 6·6	0	82	3	0·41	− 0·16	13·5	+ 5·4	29	+12	Marchmont.
2. ENGLAND, N.E. (a, North.)	*a* Alnwick Castle ..	50	23rd	23	22nd	40·6	27·9	34·5	− 4·2	0	53	4	0·85	+ 0·22	20·5	—	43	—	Cockle Park.
2. ENGLAND, N.E. (a, North.)	*a* Shields	47	23rd	23	20th	39·1	27·9	33·7	− 5·6	0	58	4	0·98	+ 0·54	*5·3*	− *0·1*	*11*	*0*	*Newcastle.*
2. ENGLAND, N.E. (a, North.)	*p* Durham	43	23rd	18	21st	36·9	26·6	32·0	− 5·8	0	70	5	0·79	+ 0·39	18·2	+ 8·9	37	+18	Durham.
2. ENGLAND, N.E. (a, North.)	*p* Rounton .. M	45	23rd	12	21st	37·2	25·4	31·5	− 6·1	0	74	6	1·82	+ 1·40	*	*	*	*	
2. ENGLAND, N.E. (a, North.)	*p* Scarborough.. M	48	24th	25	21st	40·4	30·3	35·6	− 4·0	0	45	6	1·45	+ 0·95	18·4	—	37	—	Scarborough.
2. ENGLAND, N.E. (b, South.)	*p* York	45	23rd	10	21st	38·9	25·6	32·5	− 5·7	0	67	5	1·66	+ 1·24	6·6	+ 1·0	13	+ 2	York.
2. ENGLAND, N.E. (b, South.)	*a* Spurn Head ..	46	23rd	27	20, 21, 22nd	40·0	30·7	35·5	− 4·3	0	46	5	1·01	+ 0·61	*	*	*	*	
2. ENGLAND, N.E. (b, South.)	*a* Lincoln	49	23rd	12	20th	40·1	24·9	32·8	− 5·1	0	64	6	1·47	+ 1·05	19·2	—	38	—	Skegness.
2. ENGLAND, N.E. (b, South.)	*a* Fulbeck	49	22nd	20	20th	41·0	27·0	34·3	− 3·4	0	54	6	1·28	+ 0·83	15·7	—	31	—	Rauceby.
															22·0	—	*42*	—	*Lowestoft.*
3. ENGLAND, E. (a, North.)	*p* Cromer														—	—	—	—	Cromer.
3. ENGLAND, E. (a, North.)	*p* Hillington .. M	50	22nd, 23rd	18	21st	40·9	29·0	35·2	− 2·5	0	48	6	1·48	+ 0·94	15·2	+ 5·9	29	+11	Hillington.
3. ENGLAND, E. (a, North.)	*a* Yarmouth	51	23rd	26	19th	43·0	30·9	37·2	− 1·5	3	41	5	0·99	+ 0·51	24·0	—	46	—	Yarmouth.
3. ENGLAND, E. (a, North.)	*a* Norwich	51	23rd	23	21st	43·6	29·0	36·6	− 1·9	4	49	6	1·11	—	*	*	*	*	
3. ENGLAND, E.	*p* Geldeston	52	23rd	25	19th, 21st	44·0	31·5	38·0	− 0·8	6	40	6	0·97	+ 0·51	20·8	+10·0	40	+19	Geldeston.
3. ENGLAND, E.	*p* Cambridge	53	23rd	21	21st	44·7	30·6	37·9	− 0·2	8	44	6	0·64	+ 0·30	20·0	+11·0	39	+21	Cambridge.
3. ENGLAND, E. (b, South.)	*a Felixstowe*	*50*	*23rd*	*25*	*21st, 22nd*	*43·9*	*30·9*	*37·7*	− *1·9*	*5*	*42*	*6*	*1·04*	—	*24·9*	—	*47*	—	*Felixstowe.*
3. ENGLAND, E. (b, South.)	*a* Clacton-on-Sea ..	49	23rd	25	22nd	43·0	31·0	37·2	− 1·9	3	41	5	0·60	—	21·7	—	41	—	Clacton.
3. ENGLAND, E. (b, South.)	*a* Rothamsted ..	52	22nd, 23rd	21	21st	46·1	29·1	37·9	− 0·3	11	50	7	0·88	+ 0·35	22·5	+13·1	43	+25	Rothamsted.
3. ENGLAND, E. (b, South.)	*a Shoeburyness* ..	*52*	*23rd*	*27*	*21st*	*45·4*	*32·9*	*39·4*	− *0·3*	*10*	*36*	*6*	*0·46*	+ *0·13*	*22·6*	—	*48*	—	*Southend.*
3. ENGLAND, E. (b, South.)	*p* Tottenham	54	22nd	25	21st	43·1	33·3	38·4	− 0·9	3	33	5	0·71	—	17·3	—	33	—	Tottenham.
4. MIDLAND COUNTIES. (a, East.)	*a* Harrogate	44	23rd, 24th	17	22nd	37·7	24·8	31·5	− 6·2	0	74	6	2·04	+ 1·46	17·3	—	35	—	Harrogate.
4. MIDLAND COUNTIES. (a, East.)	*a* Bawtry	47	23rd	8	22nd	40·9	23·4	32·5	− 5·7	0	67	7	1·75	+ 1·33	9·0	+ 2·2	18	+ 4	Worksop.
4. MIDLAND COUNTIES. (a, East.)	*p Buxton* .. M	*45*	*23rd*	*15*	*21st*	*35·5*	*26·3*	*31·1*	− *5·1*	*0*	*76*	*7*	*2·22*	+ *1·04*	*8·5*	—	*17*	—	*Buxton.*
4. MIDLAND COUNTIES. (a, East.)	*a* Nottingham ..	50	22nd, 23rd	14	22nd	42·0	25·6	34·1	− 4·5	0	55	7	1·27	+ 0·79	9·5	—	19	—	Nottingham.
4. MIDLAND COUNTIES. (a, East.)	*p* Birmingham, Edgbsn	50	22nd	22	21st	41·8	30·6	36·4	− 1·9	0	39	6	1·16	+ 0·66	20·1	—	39	—	Birmingham.
4. MIDLAND COUNTIES. (a, East.)	*a* Raunds .. M	52	22nd	20	21st, 22nd	44·9	27·5	36·6	− 1·6	8	56	5	1·25	—	*	*	*	*	
4. MIDLAND COUNTIES. (a, East.)	*a* Oxford	52	22nd, 23rd	23	22nd	46·0	30·3	38·5	− 0·8	11	46	5	0·68	+ 0·23	22·6	+13·2	43	+25	Oxford.
4. MIDLAND COUNTIES. (b, West.)	*a* Cheadle .. M	47	22nd	16	21st	39·3	24·5	32·2	− 5·2	9	69	6	1·44	+ 0·79	—	—	—	—	Sheffield.
4. MIDLAND COUNTIES. (b, West.)	*p* Shrewsbury ..	51	23rd	16	21st	44·1	28·7	36·7	− 3·7	6	50	6	0·94	—	*	*	*	*	
4. MIDLAND COUNTIES. (b, West.)	*a* Hereford .. M	50	23rd, 25th	19	21st	44·5	27·5	36·3	− 2·5	7	55	6	1·59	+ 1·08	*	*	*	*	
4. MIDLAND COUNTIES. (b, West.)	*a* Cirencester ..	53	23rd	14	20th	44·6	24·1	34·8	− 3·4	7	68	6	1·44	+ 0·85	17·6	+ 8·9	33	+17	Cirencester.
4. MIDLAND COUNTIES. (b, West.)	*a* Bath	54	22nd	19	21st	48·1	29·1	39·0	− 1·2	17	52	6	1·34	+ 0·66	25·6	—	48	—	Bath.
															22·6	—	*42*	—	*Ramsgate.*
5. ENGLAND, S.E....	*p* Kew	54	22nd	22	21st	45·0	31·8	38·7	− 0·8	8	40	6	0·59	+ 0·07	19·1	+10·8	36	+20	Kew.
5. ENGLAND, S.E....	*a* Marlborough ..	52	23rd	17	21st	46·4	27·6	37·4	− 0·8	12	56	6	1·25	+ 0·59	19·0	+11·0	36	+21	Marlborough.
5. ENGLAND, S.E....	*a* Margate	54	22nd	27	21st	46·5	33·6	40·3	0·0	13	34	5	0·82	+ 0·36	18·3	+ 7·9	35	+15	Margate.
5. ENGLAND, S.E....	*a* Wisley, Surrey ..	54	22nd	22	21st	47·4	30·8	39·4	− 0·2	15	45	6	0·77	—	21·5	—	40	—	Wisley.
5. ENGLAND, S.E....	*a* Swarraton .. M	52	22nd	17	21st	46·2	27·1	37·0	− 1·6	12	58	6	1·40	+ 0·71	21·7	—	40	—	Worthing.
5. ENGLAND, S.E....	*a* Tunbridge Wells M	52	22nd	23	21st	45·2	30·2	38·0	− 0·4	9	46	6	1·50	+ 0·86	20·5	+11·0	38	+20	Tunbridge Wells.
5. ENGLAND, S.E....	*a* Dungeness	52	22nd	24	21st	46·4	31·4	39·2	− 1·8	12	42	5	1·15	+ 0·66	17·7	—	33	—	Littlestone.
5. ENGLAND, S.E....	*p* Hastings	52	22nd	26	20th	45·4	34·3	40·1	− 0·9	10	31	5	1·04	+ 0·42	*22·0*	+ *9·3*	*41*	+*17*	*Hastings.*
5. ENGLAND, S.E....	*p* Southampton ..	53	22nd	22	21st	47·0	31·8	39·7	− 1·5	14	41	6	1·87	+ 1·21	21·0	+10·4	39	+19	Southampton.
5. ENGLAND, S.E....	*a* Ventnor	51	21st, 22nd	28	20th	47·9	36·1	42·2	− 1·2	26	17	5	1·07	+ 0·45	19·4	+ 8·4	36	+16	Ventnor.
															20·8	+ 9·1	39	+17	Eastbourne.
LONDON	*a Westminster* ..	*55*	*22nd*	*25*	*21st, 22nd*	*46·4*	*31·0*	*39·9*	− *0·9*	*12*	*44*	*5*	*0·47*	+ *0·04*	*11·6*	+ *8·6*	*22*	+*16*	*Westminster.*
LONDON	*a* Greenwich	*53*	*22nd, 23rd*	*22*	*21st*	*46·6*	*30·9*	*39·1*	− *0·5*	*13*	*45*	*6*	*0·52*	+ *0·16*	*18·1*	+*10·7*	*34*	+*20*	*Greenwich.*
6. (a, SCOTLAND. W. ..)	*a* Laudale	50	25th	25	20th	41·5	32·9	37·4	− 3·7	0	32	5	1·14	− 1·07	*	*	*	*	
6. (a, SCOTLAND. W. ..)	*a* Poltalloch .. S	50	25th	18	19th, 20th	40·9	24·7	33·1	− 6·7	0	62	6	1·23	− 0·02	*	*	*	*	
6. (a, SCOTLAND. W. ..)	*p* Glasgow	48	23rd	24	19th	36·2	29·4	32·9	− 6·4	0	64	5	3·81	− 0·09	9·1	+ 5·6	19	+12	Glasgow.
6. (a, SCOTLAND. W. ..)	*p* Rothesay .. S	45	23rd	24	21st, 22nd	38·1	30·0	34·2	− 6·0	0	55	6	1·39	+ 0·28	*	*	*	*	
6. (a, SCOTLAND. W. ..)	*a* Kilmarnock ..	50	25th	15	20th	39·6	26·0	33·1	− 7·1	0	62	3	0·77	—	*12·9*	—	*27*	—	*Kilmarnock.*
6. (a, SCOTLAND. W. ..)	*a* Colmonell .. S	49	25th	15	21st	40·9	25·1	33·3	− 8·0	0	61	6	0·99	− 0·16	*	*	*	*	
6. (a, SCOTLAND. W. ..)	*p* Dumfries ..	48	25th	19	21st	39·1	27·4	33·5	− 5·2	0	60	5	1·08	+ 0·21	*11·7*	—	*24*	—	*Dumfries.*
6. (b, ISLE OF MAN ..	*p* Cally, Gatehouse S	45	23rd	13	21st	37·3	25·4	31·6	− 7·3	0	73	5	0·95	− 0·25	*	*	*	*	
6. (b, ISLE OF MAN ..	*p* Douglas	47	22nd, 23rd	25	19, 20, 21st	42·0	31·2	36·8	− 5·1	0	36	7	2·23	+ 1·15	18·5	+ 9·4	37	+19	Douglas.
															16·6	—	33	—	Hoylake.
7. (a, ENGLAND, N.W....)	*p* Aspatria	46	23rd	21	19, 20, 21st	38·6	28·5	33·8	− 4·9	0	57	6	1·65	+ 0·78	14·1	—	29	—	Aspatria.
7. (a, ENGLAND, N.W....)	*p* Newton Rigg ..	44	23rd	17	20th	38·5	25·0	31·0	− 6·0	0	77	6	0·95	+ 0·09	16·6	+ 9·3	34	+19	Newton Rigg.
7. (a, ENGLAND, N.W....)	*p* Stonyhurst	46	23rd	15	21st	39·9	27·6	34·0	− 4·5	0	56	7	1·72	+ 0·72	10·2	+ 4·4	20	+ 9	Stonyhurst.
7. (a, ENGLAND, N.W....)	*p* Blackpool .. M	48	23rd	14	21st	39·8	28·7	34·5	− 5·0	0	53	7	1·84	+ 1·19	13·8	+ 7·5	28	+15	Blackpool.
7. (a, ENGLAND, N.W....)	*p* M'nch'ster, Prestwich	47	23rd	17	20th, 21st	38·6	27·1	33·1	− 5·6	0	62	7	1·99	+ 1·16	*4·2*	+ *0·6*	*8*	+ *1*	*Prestwich.*
7. (a, ENGLAND, N.W....)	*a* Liverpool (Bidston)	49	25th	22	22nd	41·6	30·7	36·4	− 4·2	0	39	7	1·77	+ 1·24	*17·7*	—	*35*	—	*Liverpool.*
7. (a, ENGLAND, N.W....)	*a* Hawarden Bridge ..	53	25th	19	22nd	43·4	28·7	36·3	− 4·6	4	49	7	1·22	+ 0·75	*14·0*	+ *7·5*	*28*	+*15*	*Southport.*
															—	—	—	—	*Rhyl.*
7. (b, NORTH WALES ..	*p* Llandudno .. M	50	23rd	26	21st	42·5	32·8	37·8	− 4·8	1	34	7	1·22	+ 0·60	16·7	+ 8·3	33	+16	Llandudno.
7. (b, NORTH WALES ..	*a* Holyhead	50	23rd	30	21st, 22nd	44·3	34·6	39·6	− 3·3	6	29	5	2·30	+ 1·45	19·7	—	38	—	Aberdovey.
7. (b, NORTH WALES ..	*p* Bettws-y-Coed ..	50	22nd	19	21st	41·7	29·3	35·8	− 6·5	0	43	6	2·74	—	13·7	—	27	—	Bettws-y-Coed.
															14·7	—	28	—	Aberystwyth.
8. (a, SOUTH WALES ..)	*a* Llangammarch Wells	49	22nd	9	21st	42·4	24·0	33·6	− 4·6	1	66	7	2.28	—	12·1	—	23	—	Llangammarch Wells.
8. (a, SOUTH WALES ..)	*a* Pembroke	51	22nd	30	21st	47·9	37·0	42·7	− 1·7	26	14	6	1·54	+ 0·65	22·1	+12·4	42	+23	Pembroke.
8. (a, SOUTH WALES ..)	*a* Cardiff	52	22nd	22	21st	43·9	31·4	37·9	− 1·6	5	40	6	1·01	− 0·02	*22·1*	—	*42*	—	*Cardiff.*
															—	—	—	—	*Tenby.*
8.	*a* Clifton	53	22nd	24	21st	47·1	32·0	39·9	− 0·8	14	41	6	1·24	+ 0·48	*21·8*	—	*41*	—	*Clifton.*
8.	*a* Shaftesbury .. M	50	21st, 22nd	26	20th	44·8	33·2	39·2	+ 0·2	8	34	6	1·55	+ 0·80	*	*	*	*	
8.	*a* Arlington	51	22nd	24	21st	45·6	32·1	39·1	− 1·7	10	39	6	1·81	+ 0·41	15·1	+ 4·1	28	+ 8	Newquay.
8. (b, ENGLAND, S.W. ..)	*a* Cullompton .. M	53	23rd	20	21st	48·0	29·5	39·1	− 1·5	17	50	6	1·79	+ 0·92	13·5	+ 5·0	25	+ 9	Cullompton.
8. (b, ENGLAND, S.W. ..)	*a* Portland Bill ..	52	21st, 23rd	33	21st	48·7	40·1	44·6	+ 1·4	26	5	5	1·02	—	*23·4*	—	*42*	—	*Weymouth.*
8. (b, ENGLAND, S.W. ..)	*p* Plymouth	53	22nd	25	20th	47·5	34·8	41·4	− 2·2	15	31	4	2·11	+ 1·12	15·0	+ 3·9	27	+ 7	Plymouth.
8. (b, ENGLAND, S.W. ..)	*p* Falmouth	53	22nd	32	20th	47·0	38·8	43·1	− 1·8	21	9	6	2·31	+ 1·00	15·6	+ 3·3	28	+ 6	Falmouth.
															19·2	+ *7·2*	*36*	+*13*	*Torquay.*
9. IRELAND, N. (a, West.)	*a* Malin Head	49	25th	20	21st	41·6	31·9	36·9	− 5·0	0	36	6	0·42	− 0·29	*	*	*	*	
9. IRELAND, N. (a, West.)	*a* Blacksod Point ..	50	25th	27	21st	42·9	32·6	38·0	− 5·5	3	35	7	1·84	+ 0·54	*	*	*	*	
9. IRELAND, N. (a, West.)	*p* Markree Castle ..	44	23rd	17	21st	39·5	25·8	32·9	− 7·3	0	64	7	1·61	+ 0·59	12·8	+ 5·2	26	+10	Markree Castle.
9. IRELAND, N. (a, West.)	*a* Birr Castle	50	25th	12	21st	41·6	25·4	33·8	− 6·6	0	57	7	1·29	+ 0·59	*14·8*	+ *5·2*	*29*	+*10*	*Birr Castle.*
9. IRELAND, N. (b, East.)	*p* Armagh	44	23rd	14	21st	37·3	27·4	32·6	− 7·4	0	66	5	1·03	+ 0·41	19·9	+11·3	40	+23	Armagh.
9. IRELAND, N. (b, East.)	*a* Donaghadee ..	48	25th	21	22nd	41·4	29·7	35·8	− 5·6	0	43	7	1·15	+ 0·48	*	*	*	*	
10. IRELAND, S. (a, East.)	*p* Dublin, City.. ..	48	23rd	20	21st	40·8	30·3	35·8	− 6·7	0	43	6	1·45	+ 0·98	9·0	− 2·7	18	− 5	Phœnix Park.
10. IRELAND, S. (a, East.)	*a* Kilkenny	50	25th	8	21st	41·6	22·4	32·4	− 8·3	0	67	6	1·09	+ 0·35	*	*	*	*	
10. IRELAND, S. (a, East.)	*a* Waterford	50	25th	24	21st	46·1	30·4	38·6	− 3·5	11	46	4	2·22	+ 1·25	*	*	*	*	
10. IRELAND, S. (a, East.)	*a* Birr Castle	50	25th	12	21st	41·6	25·4	33·8	− 6·6	0	57	7	1·29	+ 0·59	14·8	+ 5·2	29	+10	Birr Castle.
10. IRELAND, S. (b, West.)	*a* Foynes	52	25th	19	22nd	42·4	29·7	36·3	− 6·5	1	45	7	0·84	− 0·16	*	*	*	*	
10. IRELAND, S. (b, West.)	*a* Cahir .. .. M	48	22nd	17	21st	42·1	27·7	35·3	− 7·2	1	52	4	0·83	—	*	*	*	*	
10. IRELAND, S. (b, West.)	*a* Killarney	53	25th	20	21st	45·6	30·6	38·4	− 5·0	10	45	6	1·44	− 0·16	*	*	*	*	
10. IRELAND, S. (b, West.)	*a* Valencia	53	25th	25	21st	47·1	32·9	40·3	− 5·2	14	38	7	1·56	+ 0·12	19·2	+ 9·9	36	+19	Valencia.
10. IRELAND, S. (b, West.)	*a* Roche's Point ..	51	25th	28	21st	45·7	35·1	40·6	− 4·0	10	28	6	1·61	+ 0·39	15·2	—	28	—	Ballinacurra.
11. ENGLISH CHANNEL..	*a* Scilly, St. Mary's ..	54	22nd	36	21st	49·3	40·1	44·9	− 2·5	28	5	6	0·95	+ 0·03	15·9	+ 4·9	29	+ 9	Scilly.
11. ENGLISH CHANNEL..	*a* Jersey, St. Aubins ..	56	22nd	30	21st	50·4	36·7	43·8	− 0·7	35	15	5	0·62	− 0·24	11·3	− 2·4	20	− 4	St. Heliers.
11. ENGLISH CHANNEL..	*a* Guernsey	54	21st, 22nd	32	21st	49·8	38·0	44·1	− 1·0	32	11	6	0·78	− 0·19	11·6	+ 1·6	21	+ 3	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 21·3 hrs.* (*−10·3 hrs.*), *39 %* (*+19 %*); *Bournemouth, 23·8 hrs., 44 %*; *Bognor 21·6 hrs., 40 %.*

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min.		Mean Earth Temp.	
		No. of Obs. of 30° or less.	Lowest reading.	At 1 foot.	At 4 feet.
			°	°	°
0.	Balta Sound	—	—	36·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	40·4
	Crathes	7	10	34·8	38·6
	Balmoral	7	4	—	—
	West Linton	6	6	—	—
	Marchmont	6	12	34·1	—
2.	Cockle Park	6	17	33·1	39·7
	Durham	6	17	—	—
	York	—	—	37·9	43·1
	Hull	6	10	36·7	41·9
	Lincoln	—	—	36·3	42·4
	Rauceby	7	14	37·0	43·9
3.	Norwich	6	17	—	—
	Yarmouth	—	—	37·0	43·3
	Lowestoft	5	20	36·9	43·0
	Cambridge	6	13	37·5	43·5
	Clacton-on-Sea	6	16	39·7	44·8
	Southend	6	20	39·3	—
	Tottenham	5	18	—	44·5
4.	Harrogate	6	12	37·5	40·9
	Huddersfield	6	12	36·8	42·1
	Buxton	6	5	36·6	42·8
	Sheffield	7	6	37·1	43·1
	Nottingham	6	20	35·9	40·9
	Birmingham	5	13	38·7	44·7
	Oxford	6	17	—	—
	Hereford	7	9	—	—
	Cirencester	6	15	—	—
5.	Margate	4	24	39·5	43·0
	Greenwich	6	15	—	—
	Westminster	6	19	—	—
	Kew	6	14	38·4	44·5
	Canterbury				
	Tunbridge Wells	6	16	37·4	—
	Wisley	6	16	37·5	43·1
	Worthing	6	19	38·4	44·3
	Portsmouth	4	15	39·9	44·8
6.	Glasgow	7	15	—	—
	Rothesay	—	—	—	41·9
	Colmonell	4	11	—	—
	Dumfries	6	16	34·4	40·3
	Douglas	5	18	—	—
7.	Aspatria	6	11	—	—
	Newton Rigg	6	14	35·2	40·1
	Burnley	6	12	36·1	42·0
	Southport	5	14	34·7	40·3
	Manchester City	4	11	36·7	43·0
	Bettws-y-Coed	3	21	37·6	43·6
8.	Llangammarch Wells	6	13	38·4	44·9
	Cardiff	5	13	37·0	43·8
	Clifton	6	20	—	—
	Bath	—	—	—	—
	Plymouth	3	18	41·6	—
9.	Armagh	6	7	39·0	44·0
	Markree	7	20	38·4	45·1
10.	Dublin, Trin. Coll.	7	10	38·7	44·2
11.	Guernsey, Brooklyn	4	22	42·2	46·1

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	44	42	42·5
	Kirkwall	39	37	37·8
	Wick	46	45	45·1
SCOTLAND, E.	Cromarty	40	35	38·6
	Pennan Bay	41	37	39·4
	Aberdeen, Cove Bay	44	42	43·0
ENGLAND, N.E.	Burnmouth, Berwick	41	38	39·5
	Scarborough	43	36	39·4
ENGLAND, E.	Shipwash Lightship	42	40	41·2
	Margate‡	44	39	41·5
ENGLAND, S.E.	Eastbourne‡	43	41	42·1
SCOTLAND, W.	Lamlash	45	44	45·0
ENGLAND, N.W.	Ballantrae	44	41	42·7
	Port Erin	47	44	45·6
ENGLAND, S.W.	Newquay	47	46	47·0
	Plymouth‡	46	45	45·6
	Salcombe	48	40	45·9
IRELAND, N.W.	Sheephaven	45	44	44·4
	Teelin	44	39	41·5
IRELAND, S.W.	Cleggan	44	38	42·0
	Seafield	49	42	46·4
IRELAND, E.				

‡ Only one observation each day.

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1909.	Station.	Wind Direction and Velocity, Metres per Second.													
			Ground Level.	0·5 km.	1·0 km.	1·5 km.	2·0 km.	2·5 km.	3·0 km.	3·5 km.	4·0 km.	4·5 km.	5·0 km.	5·5 km.	6·0 km.	6·5 km.	7·0 km.
1	Dec. 6th, 8.10 a.m.	Crinan, N.B.	100°, 5	50°, 5	60°, 2	—, 0	190°, 1	190°, 3	190°, 2	195°, 4	180°, 3	188°, 3					
2	Dec. 6th, 3.3 p.m.	Crinan, N.B.	30°, 1	350°, 2	340°, 2	320°, 3	300°, 4	280°, 5	260°, 6	220°, 7	210°, 7	215°, 6	225°, 6	225°, 6	230°, 6	235°, 9	240°, 10
3	Dec. 7th, 2.54 p.m.	Crinan, N.B.	20°, 2	20°, 3	30°, 3	35°, 4	40°, 5	85°, 6	40°, 6	45°, 7	40°, 8	30°, 9	20°, 10	15°, 10	5°, 6	360°, 5	340°, 4
4	Dec. 8th, 2.57 p.m.	Crinan, N.B.	320°, 4	320°, 10	300°, 15	290°, 15	285°, 16	280°, 17									

No.	Date, 1909,	Station.	Wind Direction and Velocity, Metres per Second.													
			7·5 km.	8·0 km.	8·5 km.	9·0 km.	9·5 km.	10·0 km.	11·0 km.	12·0 km.	13·0 km.	14·0 km.					
1	Dec. 6th, 8.10 a.m.	Crinan, N.B.															
2	Dec. 6th, 3.3 p.m.	Crinan, N.B.	245°, 10	260°, 11	270°, 8	275°, 7	275°, 6										
3	Dec. 7th, 2.54 p.m.	Crinan, N.B.	310°, 2	280°, 2	310°, 4	315°, 10	310°, 10	305°, 12	305°, 14	305°, 13	305°, 12	305°, 10					
4	Dec. 8th, 2.57 pm.	Crinan, N.B.															

NOTES.—Registering balloons. One theodolite.
1.—Lost in clouds. 2.—Lost when the sun set on the balloon at 3.56 p.m. 3.—Lost when the sun set on balloon at 4.4 p.m. 4.—Lost behind clouds at 3·2 kms.
Eight balloons in all were sent up. That of Tuesday morning, Dec. 7th, was lost at once by accident. The others entered the clouds at once.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫ = a heavy gale; ⟩ = a gale; ⟶ = a fresh to strong breeze; ⟶ a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

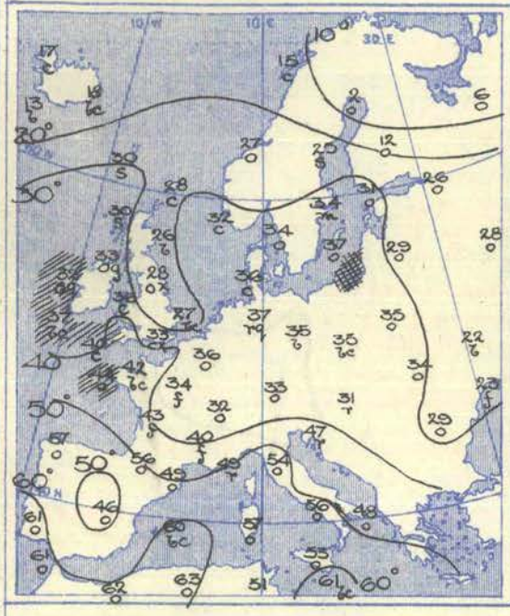
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

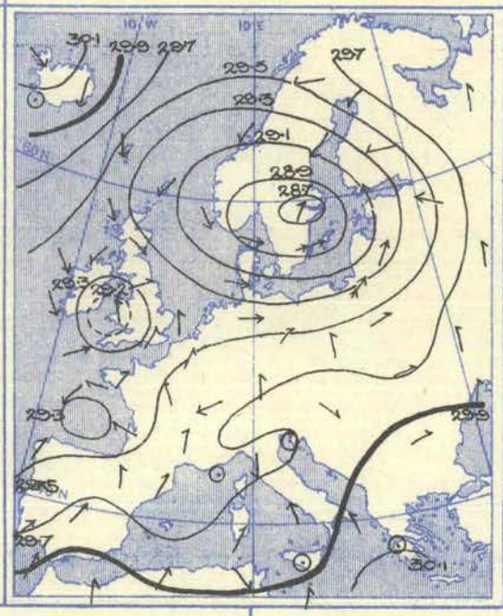
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 19th December, 1909.

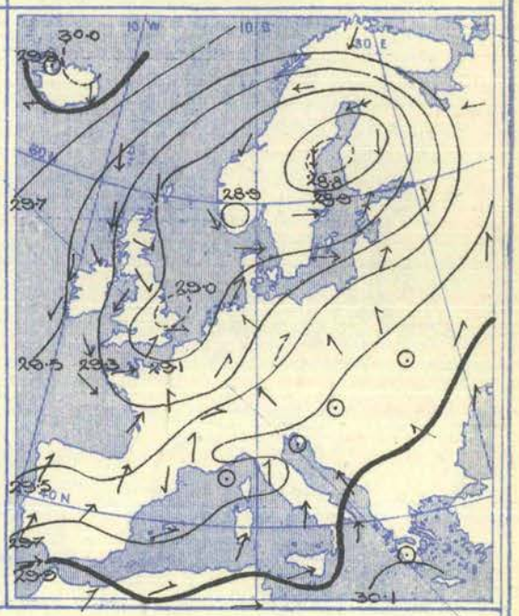
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled over the whole of western and north-western Europe with snow at some places in the northern half of these Islands and Scandinavia, and rain in several parts of France, and also at Trieste. Sky nearly clear at a few stations in the extreme south of our area. Various amounts of rain or snow later over the greater portion of this country and some heavy falls in places over a wide area on the Continent; largest measurement 2·1 ins. at Lugano. A thunderstorm at night at Liverpool.

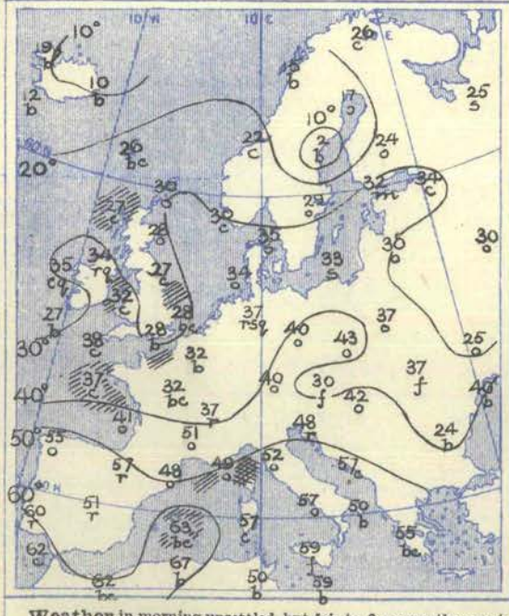
Temperature risen in southern and central Europe, fallen generally elsewhere. Morning readings ranging from very little above zero in the extreme north of Europe and below 32° over a large area in the east and also in the northern parts of this country to above 55° at many places on the shores of the Mediterranean, and to a little above 60° in the south-west of Spain and on the coast of Algeria and at Malta. Frost continuing all day in Scotland and the extreme north and east of our area, and thermometer rising very little above 32° in Austria, but touching or exceeding 60° very generally in the far south, and rising to 72° at Nemours and Algiers. Very sharp frost at night in Scotland, and central England and Ireland.

Wind in morning showing at least three complete cyclonic circulations. A gale from the Northward prevailing at Donaghadee and strong winds or gales from various quarters over Scandinavia and its immediate neighbourhood. No general change later in day. Current becoming more Northerly over these Islands and blowing a fresh to strong breeze.

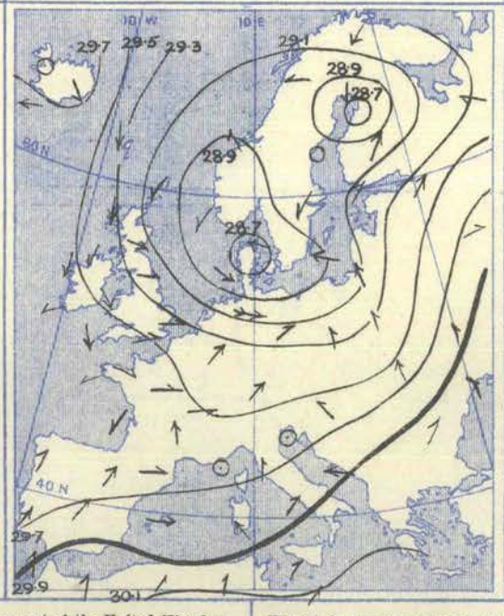
Barometer in morning below 28·7 ins. in a large depression having its minimum near Stockholm, below 29·2 ins. in another system centred over the St. George's Channel, and low in other disturbances over the Bay of Biscay and in the region of the Azores. Gradient rather irregular generally, but steep over northern Europe and North Germany. Pressure highest in Iceland. Depressions moving eastward or north-eastward later in day, that crossing England to the North Sea becoming deeper during its passage. Not much modification occurring in the general distribution of pressure, but barometer falling somewhat decidedly in Iceland.

Monday, 20th December, 1909.

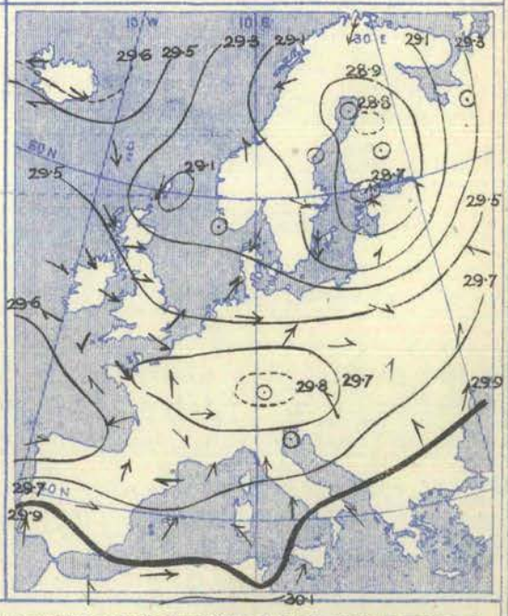
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled, but fair to fine over the greater part of the United Kingdom, and fair or fine at many places in the south of our area; generally overcast in the northern countries of the Continent, with snow in many localities. Snow showers later in the north of these Islands, heavy snow in Switzerland, and heavy rain in various parts of France, and also at Trieste.

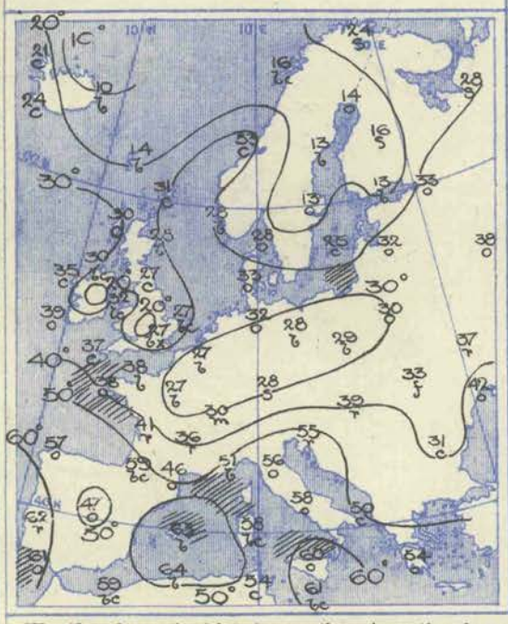
Temperature changed rather irregularly; fallen over these Islands and the greater portion of Scandinavia. Morning readings below 32° in almost all parts of this country and in the north of Europe and also at Buda Pesth; above 50° in the Spanish Peninsula and over the Mediterranean, and above 60° in places. Thermometer standing as high as 67° at Algiers. Maxima during day very little higher than 32° in any part of the United Kingdom and below it at some stations. Day warm in the far south of our area, thermometer rising to above 70° very generally on the coast of Algeria, and touching 79° at Algiers. Night extremely cold in central Ireland and central England, and also in the north-east of Scotland; minimum 12° at Birr Castle, 17° at Nottingham, and 18° at Wick.

Wind in morning showing two complete cyclonic circulations over the northern regions of Europe. Northerly to Westerly current moderate to high over the United Kingdom, and strong to a gale beyond the North Sea. A moderate breeze from between South and South-West prevailing over the Mediterranean and the Peninsula. No change of importance later in day.

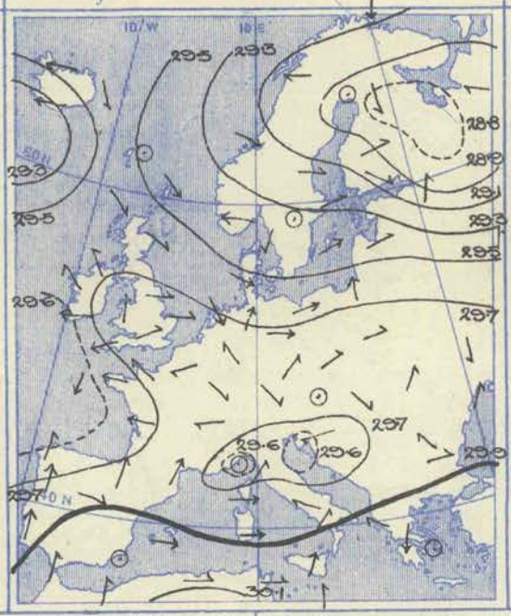
Barometer in morning above 30·0 ins. in the extreme south and south-east of our area; below 28·7 ins. in a well-defined minimum over the north of Denmark, and in another in the north of Sweden, and below 29·1 ins. in the Azores. Danish disturbance moving eastward to the Gulf of Finland during day, but a secondary appearing near Shetland. Pressure increasing over the United Kingdom, but decreasing in Iceland and also at the Azores, and over the Bay of Biscay.

Tuesday, 21st December, 1909.

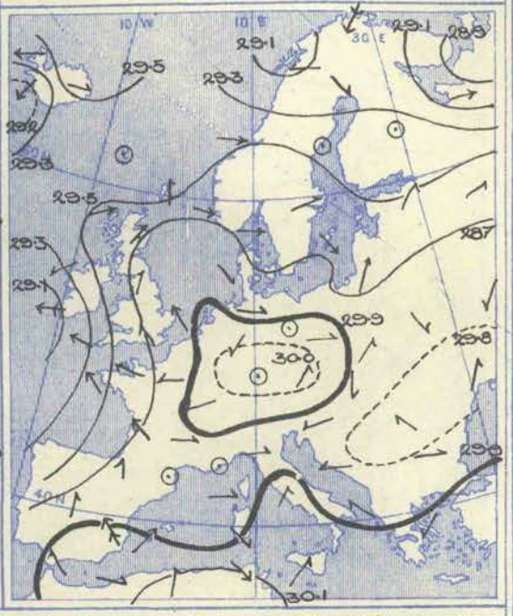
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine over the major portion of our area, but overcast in places, with snow at Munich and at one and two northern stations, and rain at Trieste, Lyons, and Lisbon. Heavy rain and sleet later over the southern half of these Islands and heavy sleet and snow in the north and north-west of England and Wales. Considerable precipitation in the west and north of France and in some parts of Austria-Hungary, as well as at Kieff.

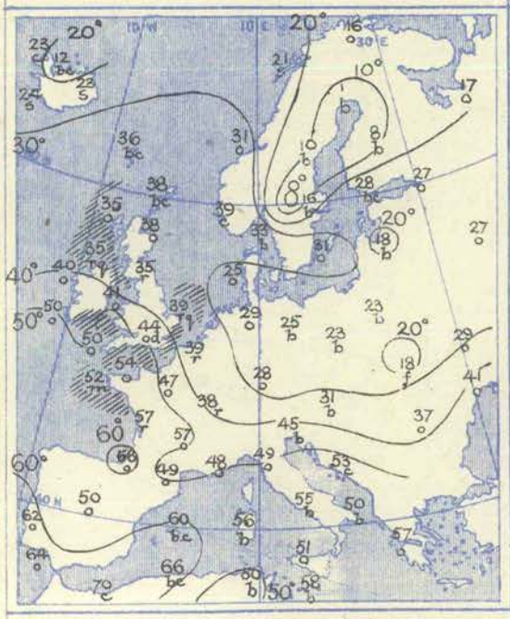
Temperature fallen generally, but risen in the south-west of Ireland and at many places in southern Europe. Morning readings 14° at Birr Castle, 20° at Bath, and below 20° over the greater part of Scandinavia, below 32° in almost all parts of these Islands and over the greater portion of the Continent, but between 50° and 60° over a large area in the south, and above 60° at several stations. Rising later over the United Kingdom, very quickly at night or towards morning. Maxima during day 81° at Nemours, 77° at Algiers, and above 70° at some other places in the far south, and as high as 68° at Biarritz. Frost continuing all day in some parts of central Europe.

Wind in morning showing cyclonic circulations in the extreme north and south of Europe, and mainly anticyclonic airs over the intervening regions. A moderate breeze from the Eastward prevailing in the south-west of these Islands and the Bay of Biscay, and a moderate Southerly breeze in Portugal. Increasing to a gale by evening on exposed parts of our south and south-west coasts, and blowing a strong to whole gale in night from the South-Eastward on various parts of our western coasts.

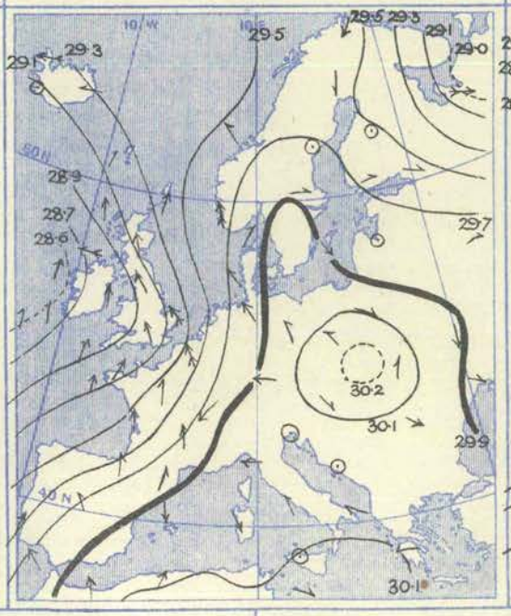
Barometer in morning above 30·0 ins. in the extreme south of our area, and relatively high in central Europe. Below 28·8 ins. in a depression in Finland, and nearly as low in a large system north of the Azores. Low also in the north of Italy and to the southward of Iceland. Pressure giving way quickly later on our south-west and west coasts and gradient growing steep over Ireland, England, and the nearer regions of the Continent. Barometer rising in the central countries and also in Scandinavia.

Wednesday, 22nd December, 1909.

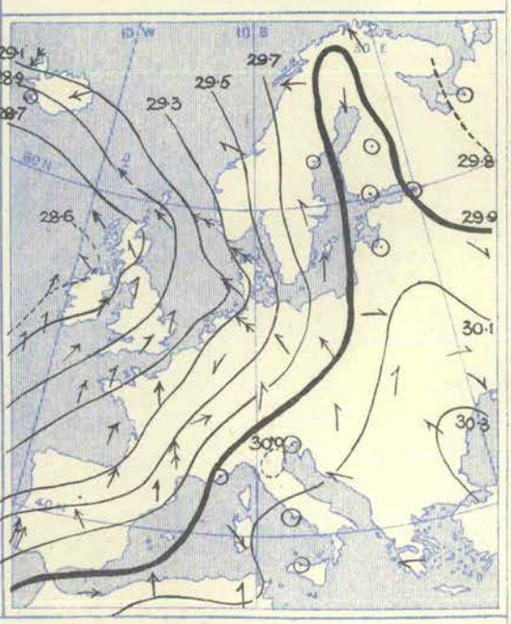
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled over our Islands and their neighbourhood, with rain in most southern regions, and sleet or snow in the north. Fair or fine at most stations in the south, east, and centre of Europe. Rain experienced later in these Islands and over a large part of the Continent; amounts heavy in places, more than 1·2 in. at Brussels, about 1·0 in. in Holland, and 3·2 ins. at Pesaro.

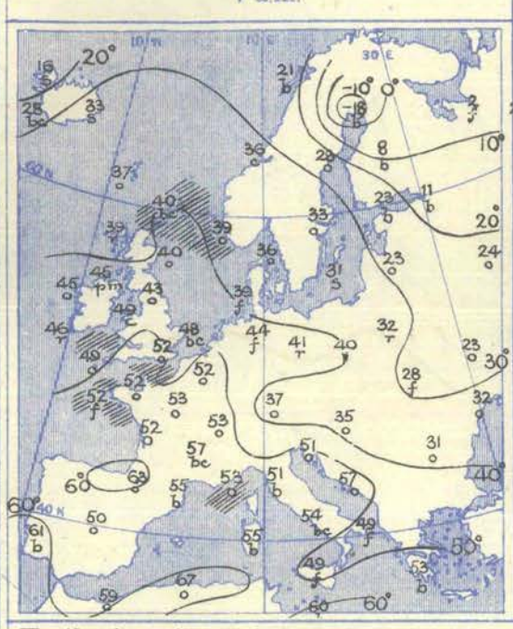
Temperature risen quickly in these Islands and France, fallen at most places in the east and north of Europe. Morning readings above 32° at all our own stations, and as high as 51° at Portland Bill. Very high in Algeria and the south-west of France; 70° at Nemours, 66° at Algiers, and 68° at Biarritz. Below 32° very generally over central and northern Europe; 2° below zero at Karlstad. Rising during day to 55° in London and to 50° or rather higher in many parts of England and in the south of Ireland, but only touching 38° at Nairn. Maxima very high at some places in the south of our area; above 80° on the coast of Algeria, 76° at Perpignan, 75° at Bilbao, and 73° at Biarritz.

Wind in morning moderate to strong from the southward over France and the south-west of these Islands, and strong to a gale from the south-eastward in the east and north of this country. An anticyclonic movement prevailing over the central countries, and a partial cyclonic circulation in the north-east; a westerly gale at Archangel, and an easterly gale at Isafjord. Little change as a whole later in day, but increasing to a gale from the south-eastward over the Baltic and from the southward at Lyons.

Barometer in morning ranging from above 30·2 ins. in a rather large high pressure system having its maximum near Cracow to below 29·0 ins. in the extreme north-east of Russia, and to below 28·6 ins. in a deep disturbance off the west of Ireland. Gradient steep over the North Sea, the Netherlands, and the east of Great Britain. Irish disturbance extending eastward and moving north-eastward during day. Highest pressure becoming situated over the south-east of Europe by evening. Gradient growing much steeper over Scandinavia and the Baltic region, and also in Switzerland and the south-east of France.

Thursday, 23rd December, 1909.

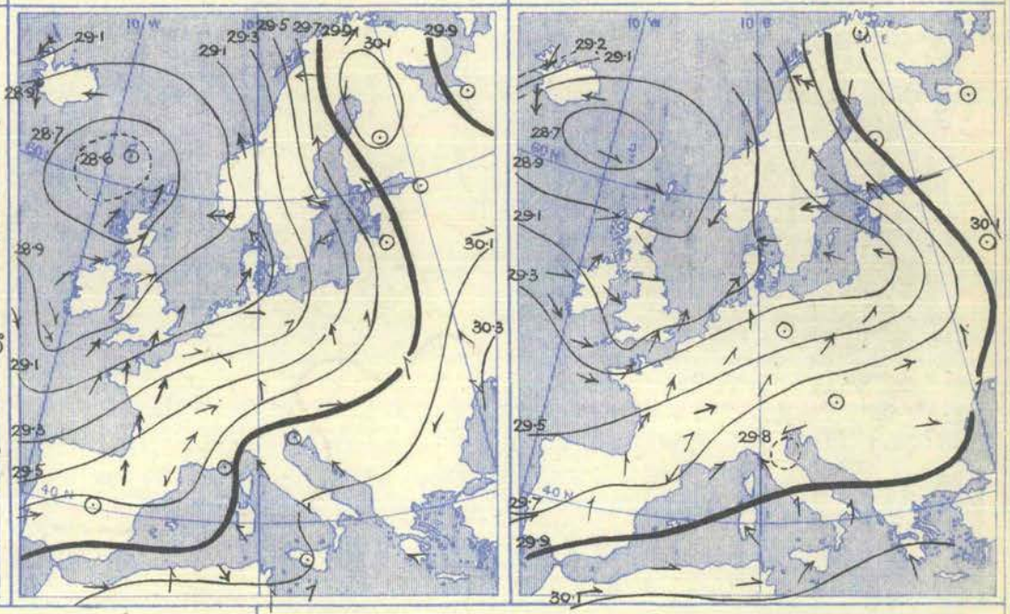
Temperature and Weather. 7 a.m.



Weather in morning very cloudy or dull over these islands and the north-west of Europe generally, with rain at some of our western stations, and rain or snow over the Baltic region. A good deal of cloud prevailing in the south of our area, but sky nearly clear in places. Rain falling at Lugano. Rain falling later, mostly in small amounts, over this country and the adjacent parts of the Continent, as well as in several regions of central Europe, and some snow in Sweden and Finland.

Temperature risen in nearly all parts of north-western Europe. Readings in morning about 50° over a large part of England, 60° or above at various places over the south of our area, and as high as 67° at Algiers. Below 35° at Nairn and 32° in the east and north of Europe. As low as 2° at Archangel, and -18° at Haparanda. Rising during day to above 50° at many English stations and to 55° at Jersey. Maxima high over the southern countries of the Continent; above 60° in many places, and above 70° on some shores of the Mediterranean. 75° at Palermo, and 77° at Nemours and Cape de Garde.

Barometer and Wind. 7 a.m. and 6 p.m.

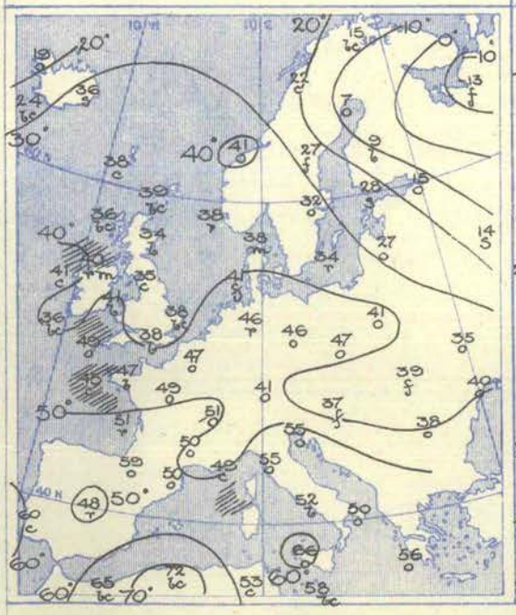


Wind Northerly in the south-west of Ireland, but mainly Southerly over these islands generally, as well as over the adjacent countries of the Continent; fresh to strong on our southern coast, and strong to a gale in Scandinavia. Easterly to Northerly winds, strong to a gale, prevailing in Iceland, and a gale from south-west at Bilbao. Light breezes, chiefly from the Southward, in the south of our area. Increasing in force over the Channel later, and veering to the North-westward on our west and south-west coasts. Increasing to a strong gale from the Eastward in the north of Norway, but not much change over our area generally.

Barometer in morning ranging from above 30·3 ins. in the south-east of Russia and above 30·1 ins. in the far north of Europe to below 28·6 ins. in a deep depression having its minimum off the north-west of Scotland. Gradient steep over Scandinavia and in places elsewhere. A secondary depression shown over Ireland. Latter system travelling eastward during day and pressure recovering very briskly in its rear. Barometer rising decidedly over the north of Russia and falling over the Baltic; gradient growing very steep over the intervening regions. Northern depression moving rather more to the northward.

Friday, 24th December, 1909.

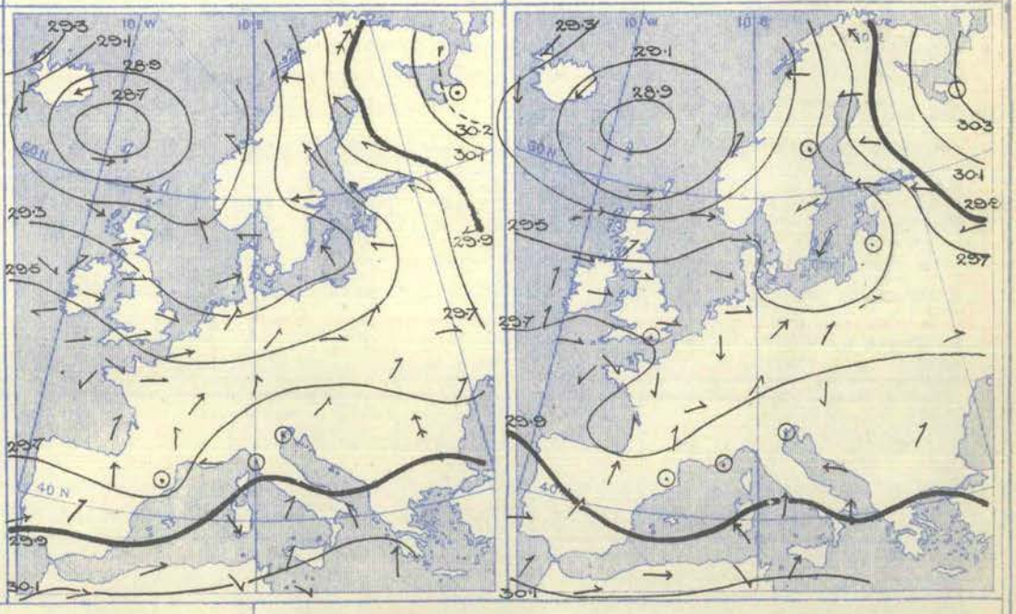
Temperature and Weather. 7 a.m.



Weather in morning rather unsettled generally, but fair to fine in many localities. Snow falling at Moscow and rain in various places widely separated over the western half of our area. Some showers and much sunshine later over the greater part of this country, and some heavy falls of rain at a few places over the southern half of the Continent; largest measurements about 1·3 in. at Trieste and Rome.

Temperature fallen very decidedly over nearly the whole of this country and its vicinity. Morning readings ranging from 72° at Algiers and above 60° at some other stations in the extreme south to below 40° over these Islands, and to much below 32° in the north and north-east of the Continent. Thermometer standing at -13° at Archangel. Maxima below 40° at many places in the north of these Islands and no higher than 45° at several of our western and southern stations, but some degrees above 60° in France, and above 60° very generally over the Mediterranean. Thermometer rising to 79° at Oran and Algiers.

Barometer and Wind. 7 a.m. and 6 p.m.

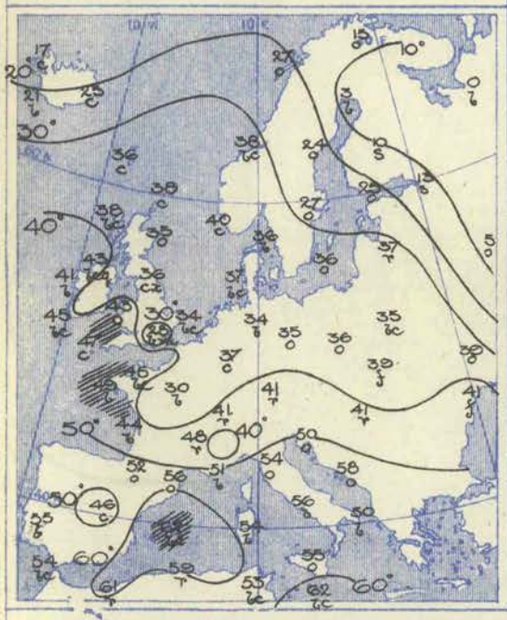


Wind in morning mainly from some Westerly point over these Islands and the southern half of the Continent, but varying locally. A gale from the Southward prevailing at Hermanstadt, but not much force generally. Wind varying more in direction over the northern regions; strong to a gale from the Eastward over Finland and the Gulf of Bothnia. A complete cyclonic circulation of strong winds or gales shown over the Icelandic region. Backing to the Southward by evening on the west coast of Ireland. Decreasing in force over the major portion of our area, but increasing from the Westward in the north of Scotland.

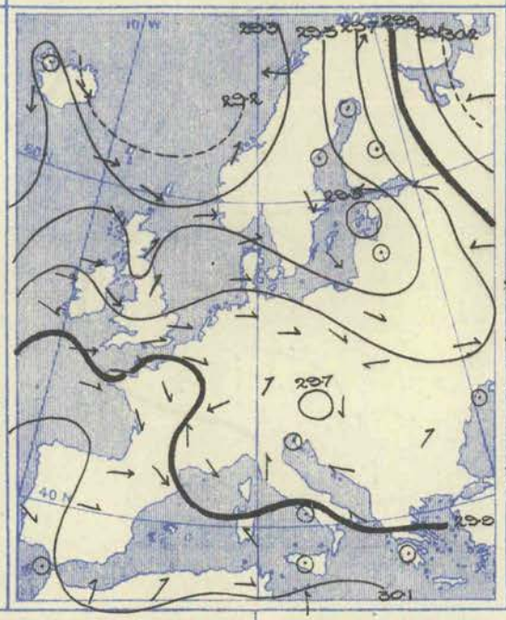
Barometer in morning above 30·2 ins. in the far north-east of our area; below 29·1 ins. in a depression over the north of Denmark, and below 28·7 ins. in a larger system between Iceland and the Faeröe, both depressions taking up a position further toward the east later in day and becoming somewhat less deep. Pressure rising over the United Kingdom and the Icelandic region, and a very brisk rise occurring over Denmark.

Saturday, 25th December, 1909.

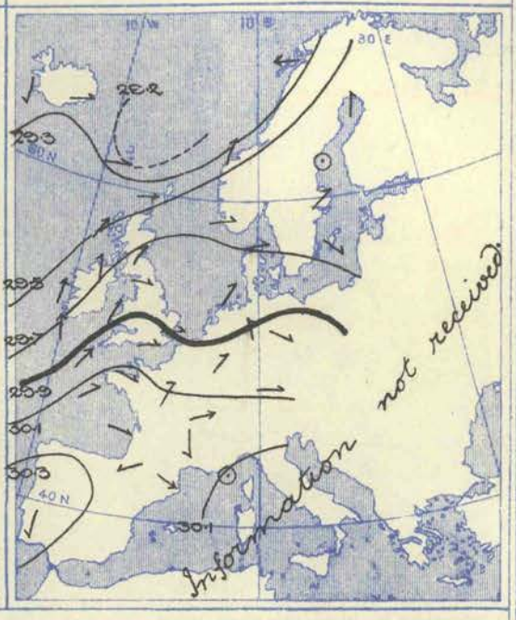
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



6 p.m.



Weather in morning fair to fine and bright over the greater part of our area, but rain falling on the coast of Algeria and in some localities in central Europe, as well as in the Baltic Provinces of Russia, and snow at St. Petersburg. Some showers later over this country generally and more than an inch of rain at Sumburgh Head; several hours of sunshine experienced in Great Britain. Rain in various parts of France and central Europe, but amounts not large, and some rain or snow in Scandinavia.

Temperature fallen in most regions. Morning readings above 32° in almost all parts of these Islands, but only 28° in London. Below 10° over the north-east of the Continent, but above the freezing point over Europe as a whole, above 50° on the shores of the Mediterranean, and about 60° at a few stations. Rising during day to 50° at many stations in England and Ireland, but only touching 40° in some Scottish localities. Maxima above 55° in the south of France and as high as 59° at Lisbon. Frost continuing all day in the north of Scandinavia.

Wind in morning showing several complete or partial cyclonic movements of little force. Westerly current blowing a strong breeze at Holyhead and Pembroke, and that from East strong at Helsingfors. Scarcely any force higher than a moderate breeze elsewhere, but a high wind from West North-West prevailing at Seydisfjord. Backing to the southward during day in the west of these Islands and increasing somewhat in force.

Barometer in morning relatively high both in the extreme north-east and south-west of our area; below 29·7 ins. in a shallow depression over Austria and below 29·2 ins. in a large system centred between Iceland and Norway. A secondary disturbance shown over the United Kingdom. A fresh fall of the mercury setting in by evening along the west and north-west coasts, but pressure increasing decidedly over France and steadily over the eastern half of Great Britain.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height.		Remarks.
												Metres.	
	1909.												
1	Dec. 20th, 11.10 a.m. to 12.12 p.m.	Pyrton Hill, Oxon, 150 m.	Temperature	273·5°	**273°**	**272°**	**270°**				**268°**	1,250	Cloudless. Very steady wind.
			Humidity ..	70%	70%	60%	50%				40%		
			Wind	250°, 7	250°, 12	280°, 16	300°, 16				315°, 17		
2	Dec. 23rd, 1.20 p.m. to 3.15 p.m.	Howard Estate, Glossop, 335 m.	Temperature	279·2°	279·0°	278·5°	276°	273·4°	**269·2°**		**268·8°**	2,040	Overcast and dull. Moderate breeze. Clouds, Ni. No wind velocity recorded, owing to accident to apparatus.
			Humidity ..	97%	97%	97%	99%	99%	95%		95%		
			Wind	214°, —	220°, —	222°, —	244°, —	249°, —	250, —		250°, —		
3	Dec. 24th, 1.20 p.m. to 4.30 p.m.	Howard Estate, Glossop, 335 m.	Temperature	275·3°	274·5°	274·2°	**270·3°**	**266·5°**			**265·3°**	1,610	Fair. Clouds, Cu. Light to gentle breeze.
			Humidity ..	94%	94%	94%	90%	86%			86%		
			Wind	270°, 5	273°, 8	274°, 10	282°, 15	288°, 15			288°, 14		

Two more kite ascents were made on Dec. 21st and on Dec. 22nd, but in both cases the clock stopped all the time, and on Dec. 22nd the kite broke away but was recovered (broken) 2 days later.

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1	2	3
No. of Kites	1	1	1
Area of Surface (metres) ..	4	7·6	7·6
Capacity of Balloon (metres) ..	—	—	—
Length of Wire (metres)	1,900	—	—

63, Victoria Street, London, S.W. *December 29th, 1909.*

W. N. SHAW, *Director.*

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

THIRTY-SECOND YEAR. *Vol. XXVI. (New Series.)* No. 52. FIFTY-SECOND WEEK, SUNDAY DECEMBER 26TH, 1909, TO SATURDAY JANUARY 1ST, 1910. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—General Remarks.

Weather was very unsettled in all parts of the Kingdom, but rain fell in the west and north-west more frequently and in larger quantities than in the south and south-east. An aurora was observed at Aberdeen on Friday night, and lightning at Geldeston and Dungeness.

Temperature was above the average, the excess ranging from about 2° in Scotland N. and the English Channel, to 5° in Ireland N., and to between 5° and 6° in England E., the Midland Counties and England N.W. The highest of the maxima occurred on rather irregular dates, but at most stations on Monday or Tuesday. They ranged from 57° in Ireland N. and the Midland Counties and 56° in several other parts of the Kingdom, to 53° in England E., and the English Channel. The lowest of the minima were recorded on different dates in the various districts, and ranged from 25° in Scotland N. and E., the Midland Counties and England S.E., to 31° in Ireland S., and to 34° in the English Channel. The lowest grass readings reported were 12° at Greenwich, 17° at Cambridge, 19° at Hereford, and 21° at Balmoral.

Mean Temperature of the Sea.—At the majority of the stations the water was warmer than during the corresponding week of last year, the excess amounting to as much as 7° at Aberdeen. In some places, however, it was colder, the difference being nearly 5° at Plymouth. The means for the week ranged from 47°·9 at Newquay and 47°·4 at Salcombe and Seafield, to 42° and less on most parts of our north and east coasts, and to very little above 40° at Cromarty and Burnmouth.

Rainfall exceeded the average in Scotland and the north-east and north-west of England, but was less elsewhere, the fall being slightest in England S.E. and E. At some stations in Scotland and the north-west of England a fall of more than an inch occurred at some time during the week, the heaviest amounts recorded being 1·22 inch at Fort William and 1·25 inch at Crieff.

Bright Sunshine somewhat exceeded the normal over the greater part of England and in Scotland E., and just equalled it in Scotland W., and England S.W., but elsewhere it was deficient. The percentage of the possible duration ranged from 21 in the Midland Counties and England E. to 7 in Ireland N. and to 5 in Scotland N.

Barometer and Wind.—The passage of large cyclonic systems over the northern parts of our area caused frequent and considerable variations in pressure, and the barometric gradient was occasionally steep over our western and northern districts. The general distribution of the wind was South-West to West except on Wednesday, when the progress of an anticyclonic ridge from west to east across these Islands produced temporarily a Northerly or North-Westerly current. The South-Westerly wind was often strong to high on exposed parts of our extreme western and north-western coasts, and reached the force of a gale in a few places; at Holyhead on Tuesday a gale from West-North-West was experienced.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 420.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year	Warmth ...	Moderate	Unusual	Unusual	Unusual	Very Unusual	Unusual	Very unusual	Unusual	Unusual	Very unusual	Unusual	Unusual
	Rainfall ...	Heavy	Heavy	Moderate	Moderate	Moderate	Light	Heavy	Heavy	Light	Light	Light	Light
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Abundant	Moderate	Scanty	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 4 weeks from Dec. 5th, 1909.	Warmth ...	0 * 3	1 * 2	1 * 2	1 * 0	1 * 1	1 * 2	1 * 2	1 * 2	1 * 3	1 * 2	1 * 2	1 * 2
	Rainfall ...	1 * 1	2 * 1	2 * 0	3 * 0	3 * 0	2 * 1	2 * 1	3 * 0	2 * 1	1 * 2	1 * 2	0 * 2
	Sunshine ...	3 * 0	2 * 0	1 * 1	2 * 1	2 * 1	2 * 1	1 * 0	2 * 0	1 * 0	1 * 2	1 * 0	0 * 2

PAST SEASONS.

WINTER, 1908–9. Nov. 29th–Mar. 6th. 14 weeks.	Warmth ...	3 * 2	3 * 2	2 * 7	4 * 6	2 * 6	4 * 6	3 * 2	4 * 6	4 * 6	6 * 1	4 * 2	5 * 5
	Rainfall ...	2 * 6	3 * 5	1 * 6	3 * 7	3 * 7	4 * 8	4 * 3	2 * 6	4 * 8	3 * 4	3 * 6	5 * 8
	Sunshine ...	6 * 2	5 * 3	3 * 3	4 * 6	4 * 6	5 * 4	4 * 2	8 * 1	6 * 2	4 * 5	2 * 4	6 * 3
SPRING, 1909. Mar. 7th–June 5th. 13 weeks.	Warmth ...	4 * 3	5 * 7	6 * 2	4 * 1	6 * 2	3 * 4	6 * 1	6 * 3	4 * 4	6 * 2	4 * 4	5 * 1
	Rainfall ...	3 * 5	8 * 2	7 * 5	7 * 4	6 * 4	6 * 3	5 * 4	6 * 5	5 * 4	5 * 4	6 * 4	5 * 4
	Sunshine ...	2 * 2	3 * 4	4 * 5	5 * 5	6 * 4	6 * 4	5 * 4	7 * 4	6 * 4	5 * 5	6 * 3	5 * 5
SUMMER, 1909. June 6th–Sept. 4th. 13 weeks.	Warmth ...	1 * 7	1 * 8	2 * 7	2 * 9	2 * 7	2 *10	1 * 7	1 * 8	2 * 7	1 * 5	1 * 4	2 * 8
	Rainfall ...	3 * 5	2 * 6	5 * 6	5 * 3	4 * 4	5 * 5	4 * 4	5 * 4	4 * 6	1 * 5	1 * 9	2 * 7
	Sunshine ...	5 * 3	4 * 3	1 * 7	3 * 6	3 * 6	4 * 7	2 * 4	3 * 6	4 * 5	3 * 5	4 * 5	4 * 4
AUTUMN, 1909. Sept. 5th–Dec. 4th. 13 weeks.	Warmth ...	2 * 6	3 * 5	2 * 6	4 * 5	4 * 5	3 * 6	3 * 7	3 * 6	3 * 6	4 * 7	4 * 6	3 * 5
	Rainfall ...	5 * 7	5 * 4	1 * 4	3 * 1	3 * 4	5 * 4	4 * 5	4 * 6	4 * 5	4 * 7	5 * 8	5 * 5
	Sunshine ...	5 * 2	5 * 3	3 * 5	2 * 6	2 * 5	3 * 2	5 * 5	5 * 2	4 * 4	5 * 2	5 * 2	4 * 5

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Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the opposite page. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface (p. 5).

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

FIFTY-SECOND WEEK—December 26th, 1909 to January 1st, 1910.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (†25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (†25 Yrs.)	Below 42°	Difference from Av. (†25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Hours recorded.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH	55	25	46·5	33·8	40·4	+ 2·1	13	+ 6	34	0	7	+ 2	1·66	+0·52	2	− 2	5	− 4
Eastern																		
1. SCOTLAND, EAST	56	25	47·2	33·3	40·5	+ 3·7	15	+ 9	36	− 7	5	+ 1	0·81	+0·20	8	+ 2	17	+ 4
2. ENGLAND, N.E.	56	29	47·9	36·4	42·4	+ 4·4	26	+ 19	16	− 20	5	+ 2	0·43	+0·03	9	+ 1	17	+ 2
3. ENGLAND, EAST	53	27	48·0	37·1	42·8	+ 5·3	26	+ 18	14	− 27	4	0	0·25	−0·14	11	+ 2	21	+ 3
4. MIDLAND COUNTIES	57	25	49·0	36·9	43·2	+ 5·8	30	+ 21	14	− 27	4	0	0·35	−0·17	11	+ 3	21	+ 6
5. ENGLAND, S.E.	54	25	48·8	37·8	43·5	+ 3·9	28	+ 15	12	− 18	4	0	0·17	−0·35	11	+ 1	20	+ 2
Western																		
6. SCOTLAND, WEST	55	26	48·9	37·5	43·4	+ 4·2	29	+ 20	13	− 16	6	+ 1	1·61	+0·47	6	0	13	0
7. ENGLAND, N.W.	56	30	49·2	39·6	44·6	+ 5·3	28	+ 18	7	− 22	5	+ 1	1·22	+0·55	10	+ 3	19	+ 6
8. ENGLAND, S.W.	55	29	49·5	41·6	45·7	+ 4·3	28	+ 11	1	− 20	5	+ 1	0·36	−0·58	9	0	17	0
9. IRELAND, NORTH	57	29	50·8	39·9	45·6	+ 5·0	34	+ 21	6	− 17	6	+ 2	0·61	−0·22	4	− 4	7	− 8
10. IRELAND, SOUTH	56	31	51·5	41·4	46·6	+ 4·1	35	+ 14	2	− 16	5	0	0·65	−0·42	8	− 2	14	− 4
11. ENGLISH CHANNEL	53	34	51·0	44·3	47·8	+ 2·1	41	+ 13	0	− 7	6	+ 1	0·41	−0·36	8	− 5	15	− 9

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 4 Weeks, December 5th, 1909 to January 1st, 1910.

0. SCOTLAND, NORTH	55	11	*	*	*	*	13	− 21	202	+ 80	22	+ 1	4·76	−0·54	25	+ 8	14	+ 4
Eastern																		
1. SCOTLAND, EAST	56	0	*	*	*	*	15	− 15	200	+ 44	16	− 1	2·51	−0·13	42	+ 14	23	+ 8
2. ENGLAND, N.E...	56	10	*	*	*	*	29	− 6	128	+ 3	18	+ 4	3·05§	+1·03	37	+ 3	18	+ 2
3. ENGLAND, EAST	54	18	*	*	*	*	31	− 8	112	− 31	19	+ 3	2·79	+1·05	47	+ 8	22	+ 4
4. MIDLAND COUNTIES.. ..	57	8	*	*	*	*	36	− 6	137	− 10	19	+ 4	3·27	+1·15	39	+ 7	19	+ 3
5. ENGLAND, S.E.	54	17	*	*	*	*	45	− 18	114	+ 13	19	+ 3	3·07	+0·76	51	+ 11	24	+ 5
Western																		
6. SCOTLAND, WEST	55	12	*	*	*	*	31	− 17	136	+ 40	16	− 3	5·14‖	+0·30	34	+ 7	17	+ 4
7. ENGLAND, N.W...	56	14	*	*	*	*	34	− 15	109	+ 10	20	+ 3	4·59	+1·58	39	+ 11	19	+ 5
8. ENGLAND, S.W...	55	9	*	*	*	*	51	− 29	90	+ 20	20	+ 2	4·59	+0·52	46	+ 5	21	+ 3
9. IRELAND, NORTH	57	12	*	*	*	*	48	− 7	104	+ 17	21	+ 1	2·88	−0·55	33	− 1	16	− 1
10. IRELAND, SOUTH	56	8	*	*	*	*	57	− 34	94	+ 28	20	+ 1	3·33	−0·79	43	+ 1	20	0
11. ENGLISH CHANNEL	56	30	*	*	*	*	102	− 27	34	+ 15	22	+ 2	2·67	−0·83	40	− 12	18	− 5

THE YEAR.—Aggregates, &c., for the Period of 52 Weeks, January 3rd, 1909 to January 1st, 1910.

0. SCOTLAND, NORTH	72	11	*	*	*	*	1885	−227	933	+137	250	+ 3	45·23	−7·08	1157	+ 48	26	+ 1
Eastern																		
1. SCOTLAND, EAST	80	0	*	*	*	*	2063	−290	1116	+188	208	+ 5	32·71	+1·94	1331	+ 1	30	0
2. ENGLAND, N.E.	85	10	*	*	*	*	2566	− 75	853	+168	193	+ 9	27·34§	+2·57	1403	− 43	32	− 1
3. ENGLAND, EAST	85	12	*	*	*	*	2879	−168	767	+ 3	201	+22	26·04	+2·52	1619	+ 42	37	+ 1
4. MIDLAND COUNTIES.. ..	86	8	*	*	*	*	2788	−174	939	+141	191	+14	27·93	+1·69	1450	+ 48	33	+ 1
5. ENGLAND, S.E...	86	0	*	*	*	*	3029	−301	696	+147	186	+14	32·12	+5·21	1743	+146	40	+ 3
Western																		
6. SCOTLAND, WEST	78	11	*	*	*	*	2382	−200	781	+178	200	−14	47·43‖	−0·77	1427	+ 67	32	+ 2
7. ENGLAND, N.W.	82	10	*	*	*	*	2596	−228	707	+160	203	+ 6	37·87	+3·09	1514	+132	34	+ 3
8. ENGLAND, S.W.	89	7	*	*	*	*	2922	−271	570	+148	201	+ 4	37·52	−1·13	1699	+139	39	+ 3
9. IRELAND, NORTH	78	12	*	*	*	*	2589	−115	576	+ 73	235	+ 3	35·87	−2·43	1291	+ 11	29	0
10. IRELAND, SOUTH	81	8	*	*	*	*	3031	−121	491	+106	221	+13	34·70	−5·50	1506	+ 59	34	+ 1
11. ENGLISH CHANNEL	84	25	*	*	*	*	3708	− 84	207	+ 75	191	−21	30·39	−2·27	1975	+ 78	45	+ 2

NOTES ON TABLES II. & III.

* An Asterisk is inserted in all places for which the information is not usually given.
† In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding value for Report No. 50 slightly altered owing to the receipt of further information.
‖ The corresponding value for last week slightly altered owing to the receipt of further information.

The names of Stations shown on the left of Table III. are those of Temperature and Rainfall Stations. The Sunshine is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases.

Information for Stations marked ℛ is supplied by the Royal Meteorological Society, and that for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked **M** or **S** are in connexion with one or other of the Societies, as well as with the Meteorological Office.

Values in Table III. printed in italic type are not used for the computation of the "District Values" shown in Table II.

DISTRICTS	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.				
		Highest observed.	Date.	Lowest observed	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge.	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	No. of Rain-Days	Rainfall in the Week.	Difference from Average.	Number of Hours recorded.	Difference from Average.	Percentage of possible duration.	Difference from Average.	NAMES OF STATIONS.
		°		°		°	°	°	°	Day °	Day °		Ins.	Ins.	Hrs.	Hrs.	%	%	
0. SCOTLAND, N.	*p Balta Sound* S	*49*	*1st*	*31*	*27th, 29th*	*42·8*	*34·9*	*39·0*	—	*2*	*26*	7	*1·28*	—	*3·8*	—	*10*	—	*Balta Sound.*
	a Sumburgh Head	50	1st	25	29th	44·4	30·4	37·7	− 2·2	7	44	7	1·13	+ 0·10	3·5	− 2·5	8	− 6	Deerness.
	a Stornoway	53	1st	30	28th	48·1	34·3	41·5	+ 1·9	17	33	7	1·71	+ 0·31	2·2	− 3·2	5	− 8	Stornoway.
	a Castlebay, Barra Isl.	*51*	*1st*	*38*	*27, 28, 29, 30*	*45·7*	*39·4*	*44·8*	+ 2·7	*31*	*7*	7	*1·36*	—	*2·4*	—	*5*	—	*Castlebay.*
	a Wick	53	1st	30	28th	45·9	33·7	40·0	+ 1·4	11	33	6	0·29	− 0·36	*	*	*	*	*
	p Strathpeffer	55	1st	30	27th, 30th	46·8	33·8	40·6	+ 3·5	13	34	6	0·64	− 0·12	3·3	− 3·6	7	− 8	Strathpeffer.
	p Glencarron S	51	30th	28	27th	45·7	34·1	40·1	+ 3·2	10	32	7	2·89	+ 0·52	*	*	*	*	*
	p Fort Augustus S	53	1st	27	27th	47·1	34·3	41·0	+ 2·8	14	33	6	1·24	− 0·06	0·0	− 2·8	0	− 6	Fort Augustus.
	p Fort William S	52	1st	30	27th	47·5	36·1	42·0	+ 2·2	15	17	7	3·69	+ 1·45	*	*	*	*	*
1. SCOTLAND E.	*p* Gordon Castle S	51	30th, 31st	30	27th	47·9	34·4	41·4	+ 3·1	17	32	3	0·28	− 0·32	*9·4*	—	*21*	—	*Gordon Castle.*
	a Nairn	55	1st	27	30th	48·0	32·6	40·6	+ 3·1	17	39	5	0·21	− 0·28	9·2	—	20	—	Nairn.
	a Aberdeen	51	1st	31	26th	46·0	34·4	40·4	+ 2·3	11	31	5	0·60	− 0·02	9·4	+ 0·7	21	+ 2	Aberdeen.
	a Balmoral	55	1st	25	26th	45·6	29·7	38·0	+ 3·6	10	48	6	0·60	− 0·11	9·7	—	21	—	Crathes S.
	p Crieff S	52	1st	30	29th	46·4	33·7	40·3	+ 2·8	12	34	7	1·91	+ 0·98	5·9	—	13	—	Balruddery
	a Leith S	56	1st	34	30th	50·6	37·7	44·4	+ 5·1	35	12	6	0·50	+ 0·10	5·8	+ 0·8	12	+ 2	Edinburgh.
	a West Linton S	52	1st	28	26, 29, 30th	46·0	30·7	38·7	+ 2·1	11	45	6	1·60	—	*4·3*	—	*9*	—	*West Linton.*
	p Marchmont S														—	—	—	—	Marchmont.
2. ENGLAND, N.E.	*a* Alnwick Castle	55	1st	29	30th	48·7	35·6	42·4	+ 3·7	30	18	5	1·00	+ 0·40	9·3	—	19	—	Cockle Park.
	a Shields	56	1st	31	26th	49·9	35·6	43·0	+ 3·9	34	18	5	0·49	+ 0·07	*6·2*	+ *0·7*	*13*	+ *2*	*Newcastle.*
	p Durham	52	28th	30	29th	48·4	35·5	42·2	+ 4·5	29	18	5	0·31	− 0·09	11·5	+ 2·0	24	+ 4	Durham.
	p Rounton M	51	26th, 27th	29	29th	45·3	35·1	40·4	+ 2·9	9	28	5	0·31	− 0·11	*	*	*	*	*
	p Scarborough M	53	28th	33	26th, 30th	48·3	37·7	43·2	+ 4·0	26	12	4	0·38	− 0·10	4·5	—	9	—	Scarborough.
	p York	54	28th	32	30th	49·4	36·3	43·1	+ 4·9	32	16	4	0·20	− 0·22	3·0	− 2·7	6	− 5	York.
	a Spurn Head	50	27th, 28th	32	26th	46·3	37·1	41·9	+ 2·3	12	22	5	0·42	+ 0·05	*	*	*	*	*
	a Lincoln	54	27th	33	26th, 30th	46·8	37·1	42·1	+ 4·5	21	14	5	0·35	− 0·06	11·7	—	23	—	Skegness.
	a Fulbeck	53	27th	30	30th	48·0	37·3	42·9	+ 5·4	26	13	5	0·37	− 0·08	11·5	—	22	—	Rauceby.
															13·3	—	*26*	—	*Lowestoft.*
3. ENGLAND, E.	*p* Cromer	53	28th	33	30th	46·1	37·9	42·2	+ 4·8	19	11	5	0·27	—	9·6	—	19	—	Cromer.
	p Hillington M	52	28th	27	30th	47·1	35·3	41·4	+ 3·9	14	28	4	0·47	− 0·04	6·9	− 2·6	13	− 5	Hillington.
	a Yarmouth	53	28th	33	26, 30, 31, 1	48·0	36·9	42·7	+ 4·4	26	14	3	0·20	− 0·25	14·1	—	27	—	Yarmouth.
	a Norwich	53	27th	29	30th	48·7	37·1	43·1	+ 4·9	28	14	6	0·26	—	*	*	*	*	*
	p Geldeston	53	28th	31	30th	48·2	37·1	42·9	+ 4·7	27	14	6	0·16	− 0·27	12·3	+ 1·3	24	+ 3	Geldeston.
	p Cambridge	53	26th, 28th	27	30th	48·9	35·7	42·6	+ 4·7	31	18	4	0·24	− 0·09	14·1	+ 4·6	27	+ 9	Cambridge.
	a Felixstowe	*53*	*27th*	*30*	*26th, 30th*	*47·4*	*36·0*	*41·9*	+ *2·7*	*15*	*26*	*4*	*0·20*	—	*11·2*	—	*21*	—	*Felixstowe.*
	a Clacton-on-Sea	51	28th	31	30th	46·4	36·6	41·7	+ 2·8	12	23	3	0·22	—	10·0	—	19	—	Clacton.
	a Rothamsted	52	26th, 27th	27	30th	49·0	37·1	43·3	+ 5·5	30	14	5	0·22	− 0·30	11·8	+ 2·2	22	+ 4	Rothamsted.
	a Shoeburyness	*53*	*27th*	*32*	*30th*	*48·9*	*37·7*	*43·5*	+ *4·4*	*29*	*12*	*4*	*0·22*	− *0·09*	*9·1*	—	*17*	—	*Southend.*
	p Tottenham	53	26th, 28th	30	30th	49·6	39·8	44·9	+ 5·7	30	6	4	0·17	—	9·2	—	17	—	Tottenham.
4. MIDLAND COUNTIES.	*a* Harrogate	52	28th	31	26th	46·6	36·5	41·8	+ 4·2	13	24	4	0·44	− 0·13	10·2	—	20	—	Harrogate.
	a Bawtry	55	27th	29	30th	48·9	37·4	43·4	+ 5·4	29	13	4	0·51	+ 0·10	10·2	+ 3·1	20	+ 6	Worksop.
	p Buxton M	*50*	*28th*	*29*	*29th, 30th*	*45·9*	*36·4*	*41·3*	+ *5·4*	*11*	*23*	*5*	*2·51*	+ *1·36*	*6·7*	—	*13*	—	*Buxton.*
	a Nottingham	54	27th	29	30th	49·1	38·0	43·8	+ 5·4	29	11	5	0·40	− 0·06	7·0	—	14	—	Nottingham.
	p Birmingham, Edgbsn	52	26th, 28th	34	30th	48·1	38·6	43·5	+ 5·4	25	10	4	0·39	− 0·11	10·3	—	20	—	Birmingham.
	a Raunds M	53	26th, 27th	25	30th	49·1	35·6	42·6	+ 4·9	*31*	18	3	0·26	—	*	*	*	*	*
	a Oxford	53	26th, 27th	28	30th	49·7	38·4	44·3	+ 5·2	31	10	4	0·16	− 0·28	13·2	+ 3·5	25	+ 7	Oxford.
	a Cheadle M	51	27th	32	29th, 30th	46·6	35·1	41·1	+ 3·8	13	29	5	0·79	+ 0·15	9·8	—	19	—	Sheffield.
	p Shrewsbury	54	28th	30	30th	50·7	38·3	44·5	+ 4·8	35	10	5	0·43	—	*	*	*	*	*
	a Hereford M											2	0·17	− 0·34	*	*	*	*	*
	a Cirencester	57	27th	27	30th	50·3	35·3	43·1	+ 5·0	36	19	4	0·28	− 0·29	12·9	+ 3·7	24	+ 7	Cirencester.
	a Bath	55	27th	30	30th	50·7	36·0	43·6	+ 3·5	36	17	4	0·07	− 0·57	12·8	—	24	—	Bath.
															13·0	—	*24*	—	*Ramsgate.*
5. ENGLAND, S.E.	*p* Kew	54	28th	29	30th	49·4	38·5	44·2	+ 5·0	30	10	4	0·15	− 0·26	8·8	+ 0·3	17	+ 1	Kew.
	a Marlborough	52	27th	26	30th	49·1	35·3	42·5	+ 4·5	32	19	5	0·14	− 0·50	10·0	+ 1·7	19	+ 3	Marlborough.
	a Margate	53	27th, 28th	32	26th	49·0	36·3	42·9	+ 2·8	30	16	3	0·14	− 0·29	9·4	− 1·0	18	− 2	Margate.
	a Wisley, Surrey	53	27th	26	30th	49·5	37·7	43·8	+ 4·3	31	12	2	0·07	—	10·6	—	20	—	Wisley.
	a Swarraton M	51	26th, 27th	25	30th	48·6	35·8	42·5	+ 4·1	30	17	4	0·15	− 0·50	13·0	—	24	—	Worthing.
	a Tunbridge Wells M	51	27th	29	30th, 31st	47·7	36·5	42·3	+ 4·1	25	15	4	0·39	− 0·22	11·6	+ 1·9	22	+ 4	Tunbridge Wells.
	a Dungeness	51	27th	30	30th	47·9	37·9	43·1	+ 2·5	25	11	4	0·15	− 0·22	10·3	—	19	—	Littlestone.
	p Hastings	51	28th	35	30th, 1st	48·2	39·1	43·8	+ 3·2	25	8	4	0·21	− 0·38	*12·7*	− *0·1*	*24*	*0*	*Hastings.*
	p Southampton	53	26th, 28th	30	30th	49·8	39·0	44·6	+ 3·7	31	8	4	0·17	− 0·47	10·6	− 0·1	20	0	Southampton.
	a Ventnor	51	27th	36	30th	49·1	41·4	45·4	+ 2·6	26	2	5	0·14	− 0·47	10·4	− 1·1	19	− 2	Ventnor.
LONDON	*a Westminster*	*54*	*27th, 28th*	*28*	*26th*	*50·4*	*37·9*	*44·4*	+ *4·8*	*34*	*11*	*5*	*0·19*	− *0·22*	11·3	− 0·6	21	− 1	Eastbourne.
	a Greenwich	*54*	*27th*	*28*	*30th*	*50·1*	*38·2*	*44·4*	+ *4·8*	*33*	*11*	*5*	*0·22*	− *0·18*	*3·3*	+ *0·1*	*6*	*0*	*Westminster.*
															8·3	+ *0·6*	*16*	+ *1*	*Greenwich.*
6.	*a* Laudale	55	1st	33	26th, 28th	51·1	40·0	45·8	+ 4·9	35	6	7	3·31	+ 1·16	*	*	*	*	*
	a Poltalloch S	52	27th, 1st	29	29th	48·3	33·6	41·2	+ 1·5	18	36	6	2·18	+ 0·98	*	*	*	*	*
	p Glasgow	51	28th, 1st	34	29th	48·8	38·3	43·8	+ 4·7	28	10	6	1·47	+ 0·62	2·9	− 0·9	6	− 2	Glasgow.
a, SCOTLAND. W.	*p* Rothesay S	52	1st	31	29th	50·1	38·4	44·5	+ 4·5	33	10	7	1·58	+ 0·49	*	*	*	*	*
	a Kilmarnock	54	1st	28	30th	49·9	34·6	42·6	+ 2·6	35	21	4	1·11	—	*5·1*	—	*11*	—	*Kilmarnock.*
	a Colmonell S	52	27th	26	29th	48·2	36·1	42·4	+ 1·5	28	17	5	0·87	− 0·25	*	*	*	*	*
	p Dumfries S	51	27th, 28th	31	29th	48·6	38·7	43·9	+ 5·3	27	9	5	1·33	+ 0·49	*9·7*	—	*20*	—	*Dumfries.*
b, ISLE OF MAN	*p* Cally, Gatehouse S	48	27th, 28th	28	29th	45·7	36·3	41·2	+ 2·4	10	24	7	1·10	− 0·06	*	*	*	*	*
	p Douglas	50	26, 27, 28, 1	35	29th	49·0	41·3	45·3	+ 3·6	26	2	6	1·57	+ 0·57	9·5	0·0	19	0	Douglas.
															16·2	—	32	—	Hoylake.
7.	*p* Aspatria	51	27th, 28th	31	29th	48·0	38·3	43·3	+ 4·8	25	10	6	2·37	+ 1·57	7·4	—	15	—	Aspatria.
	p Newton Rigg	51	28th	30	26th, 30th	47·5	35·2	41·6	+ 4·7	15	29	6	1·57	+ 0·73	8·9	+ 1·2	18	+ 3	Newton Rigg.
a, ENGLAND, N.W.	*p* Stonyhurst	52	28th	33	26, 29, 30th	47·5	38·3	43·1	+ 4·9	23	10	5	1·98	+ 1·00	7·2	+ 1·0	14	+ 2	Stonyhurst.
	p Blackpool M	52	28th	33	29th, 30th	47·7	39·2	43·6	+ 4·2	23	8	5	1·03	+ 0·38	12·1	+ 5·4	24	+11	Blackpool.
	p M'nch'ster, Prestwich	52	28th	?33	29th	47·5	39·3	43·6	+ 4·9	23	8	4	1·32	+ 0·52	*1·1*	− *2·7*	*2*	− *5*	*Prestwich.*
	a Liverpool (Bidston)	54	27th	36	26th, 30th	49·4	40·6	45·2	+ 4·8	28	4	5	0·59	+ 0·07	*18·8*	—	*37*	—	*Liverpool.*
	a Hawarden Bridge	56	27th, 31st	35	30th	53·9	41·3	47·9	+ 7·2	44	2	2	0·27	− 0·18	*12·1*	+ *4·9*	*24*	+*10*	*Southport.*
															15·0	—	*29*	—	*Rhyl.*
b, NORTH WALES	*p* Llandudno M	55	28th	36	29th	51·7	40·9	46·5	+ 4·2	36	3	4	0·71	+ 0·10	12·8	+ 3·8	25	+ 8	Llandudno.
	a Holyhead	51	27th	40	26, 29, 30th	49·0	42·7	46·0	+ 3·5	28	9	4	0·69	− 0·11	8·2	—	16	—	Aberdovey.
	p Bettws-y-Coed	53	27th, 28th	32	29th	50·0	40·1	45·3	+ 3·5	31	5	6	1·68	—	4·1	—	8	—	Bettws-y-Coed.
															7·3	—	14	—	Aberystwyth.
8.	*a* Clifton	52	27th	34	30th	49·1	40·2	44·8	+ 4·3	27	5	6	0·29	− 0·45	*9·2*	—	*17*	—	*Clifton.*
	a Shaftesbury M	51	26th	30	1st	47·4	38·6	43·2	+ 4·5	23	10	5	0·09	− 0·61	*	*	*	*	*
	a Arlington	52	27th	35	1st	48·9	39·9	44·6	+ 4·4	27	6	6	0·71	− 0·61	13·5	+ 2·3	25	+ 4	Newquay.
b, ENGLAND, S.W.	*a* Cullompton M	55	27th	31	1st	50·9	40·0	45·7	+ 5·3	34	6	5	0·10	− 0·75	4·6	− 4·2	9	− 8	Cullompton.
	a Portland Bill	52	27th	43	30th, 1st	49·9	46·0	48·0	+ 5·1	42	0	2	0·06	—	*13·2*	—	*24*	—	*Weymouth.*
	p Plymouth	53	26, 27, 28th	34	1st	50·8	44·3	47·7	+ 4·5	40	0	4	0·11	− 0·84	9·1	− 2·0	17	− 4	Plymouth.
	p Falmouth	53	27th, 28th	39	1st	50·6	45·0	47·9	+ 3·5	41	0	3	0·24	− 1·03	13·2	+ 0·9	24	+ 2	Falmouth.
															9·8	− *2·9*	*18*	− *5*	*Torquay.*
9. IRELAND, N.	*a* Malin Head	53	1st	38	30th	49·6	41·1	45·5	+ 4·0	28	3	6	0·60	− 0·08	*	*	*	*	*
a, West.	*a* Blacksod Point	52	27, 30, 31, 1	36	26th	51·3	42·0	46·8	+ 3·6	34	0	6	0·97	− 0·29	*	*	*	*	*
	p Markree Castle	57	27th	29	29th	52·0	38·7	45·6	+ 5·5	39	9	4	0·54	− 0·44	3·8	− 4·0	8	− 8	Markree Castle.
	a Birr Castle	56	27th	33	26th	51·6	39·1	45·6	+ 5·4	37	8	6	0·58	− 0·10	*6·9*	− *2·8*	*13*	− *5*	*Birr Castle.*
b, East.	*p* Armagh	54	27th, 28th	32	29th	50·5	39·2	45·1	+ 5·3	33	8	7	0·49	− 0·12	3·2	− 5·7	6	−11	Armagh.
	a Donaghadee	54	1st	34	30th	50·0	39·4	44·9	+ 3·7	31	7	5	0·50	− 0·15	*	*	*	*	*
10. IRELAND, S.	*p* Dublin, City	56	27th, 28th	35	29th	52·8	42·0	47·6	+ 5·4	39	0	2	0·23	− 0·26	9·4	− 2·6	18	− 5	Phœnix Park.
a, East.	*a* Kilkenny	55	27th	31	1st	50·9	38·9	45·1	+ 4·4	35	9	6	0·41	− 0·34	*	*	*	*	*
	a Waterford	52	26, 27, 1st	35	29th	50·6	40·1	45·6	+ 3·8	33	5	5	0·51	− 0·45	*	*	*	*	*
	a Birr Castle	56	27th	33	26th	51·6	39·1	45·6	+ 5·4	37	8	6	0·58	− 0·10	6·9	− 2·8	13	− 5	Birr Castle.
	a Foynes	56	27th	35	26th	52·3	43·2	47·9	+ 7·2	41	0	5	0·88	− 0·08	*	*	*	*	*
b, West.	*a* Cahir M	54	27th	34	26th, 1st	50·7	38·6	44·9	+ 2·7	35	10	6	0·76	—	*	*	*	*	*
	a Killarney	56	27th, 1st	37	26th	52·9	43·4	48·3	+ 5·3	44	0	5	1·01	− 0·56	*	*	*	*	*
	a Valencia	56	27th	38	1st	52·4	45·1	48·9	+ 3·7	48	0	7	0·93	− 0·48	7·2	− 2·3	14	− 4	Valencia.
	a Roche's Point	52	27th, 1st	38	26th, 1st	50·6	44·1	47·5	+ 3·1	39	0	7	0·72	− 0·48	6·8	—	13	—	Ballinacurra.
11. ENGLISH CHANNEL	*a* Scilly, St. Mary's	53	26, 27, 28th	45	30th, 31st	52·4	46·3	49·5	+ 2·4	53	0	6	0·37	− 0·51	12·2	+ 0·9	22	+ 2	Scilly.
	a Jersey, St. Aubins	52	27th, 28th	34	30th	50·4	42·1	46·4	+ 2·4	31	0	5	0·57	− 0·25	8·3	− 5·7	15	−10	St. Helliers.
	a Guernsey	52	27th, 28th	37	30th	50·3	44·6	47·6	+ 2·9	39	0	6	0·28	− 0·64	4·2	− 6·0	8	−11	Guernsey.

Additional Sunshine Totals for the week: *Brighton, 11·4 hrs.* (+ *0·2 hrs.*), *21* % (*0* %); *Bournemouth, 14·5 hrs., 27* %; *Bognor 10·9 hrs., 20* %.

For notes see opposite page.

IV.—TEMPERATURE on the Grass and in the Ground.

	STATION.	Grass Min. No. of Obs. of 30° or less.	Grass Min. Lowest reading.	Mean Earth Temp. At 1 foot.	Mean Earth Temp. At 4 feet.
			°	°	°
0.	Balta Sound	—	—	37·2	—
	— —				
	— —				
1.	Aberdeen	—	—	—	39·7
	Crathes	7	23	34·5	37·5
	Balmoral	5	21	—	—
	West Linton	6	22	—	—
	Marchmont				
2.	Cockle Park	2	25	36·6	38·7
	Durham	3	28	—	—
	York	—	—	39·3	42·0
	Hull	3	27	38·9	43·0
	Lincoln	—	—	43·1	40·9
	Rauceby	3	23	40·0	43·0
3.	Norwich	4	23	—	—
	Yarmouth	—	—	40·0	43·0
	Lowestoft	3	28	39·6	42·4
	Cambridge	6	17	39·5	42·9
	Clacton-on-Sea	4	25	41·4	44·5
	Southend	4	25	41·9	—
	Tottenham	1	26	—	44·0
4.	Harrogate	2	24	39·3	40·4
	Huddersfield	2	25	38·6	41·3
	Buxton	2	29	38·8	42·3
	Sheffield	4	22	39·3	42·3
	Nottingham	4	23	39·8	40·7
	Birmingham	2	30	41·8	44·3
	Oxford	3	22	—	—
	Hereford	5	19	—	—
	Cirencester	4	26	—	—
5.	Margate	2	29 ?	42·2	43·3
	Greenwich	4	12	—	—
	Westminster	3	25	—	—
	Kew	4	22	41·4	44·2
	Canterbury	—	—	—	—
	Tunbridge Wells	4	21	40·1	—
	Wisley	3	25	41·3	43·3
	Worthing	4	24	41·3	44·1
	Portsmouth	2	33	42·6	45·1
6.	Glasgow	2	26	—	—
	Rothesay	—	—	—	41·0
	Colmonell	2	26	—	—
	Dumfries	1	27	36·4	39·2
	Douglas	1	29	—	—
7.	Aspatria	1	25	—	—
	Newton Rigg	4	23	37·4	39·4
	Burnley	4	23	38·6	41·3
	Southport	3	24	38·6	39·7
	Manchester City	0	33	40·0	42·4
	Bettws-y-Coed	1	30	41·1	42·9
8.	Llangammarch Wells	3	24	42·2	44·3
	Cardiff	2	27	41·6	43·3
	Clifton	2	28	—	—
	Bath	—	—	42·1	44·1
	Plymouth	0	31	45·3	—
9.	Armagh	2	29	41·3	43·2
	Markree	3	25	42·5	44·4
10.	Dublin, Trin. Coll.	2	29	42·2	43·7
11.	Guernsey, Brooklyn	2	29	45·7	46·5

V.—TEMPERATURE of the SEA. Week ending on morning of Saturday.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.
		°	°	°
SCOTLAND, N.	Lerwick	42	42	42·0
	Kirkwall	42	39	40·6
	Wick	45	44	44·3
SCOTLAND, E.	Cromarty	42	39	40·2
	Pennan Bay	42	40	41·1
	Aberdeen, Cove Bay	44	42	43·6
ENGLAND, N.E.	Burnmouth, Berwick	41	40	40·3
	Scarborough	45	39	41·4
ENGLAND, E.	Shipwash Lightship	44	42	42·7
	Margate‡	43	42	42·4
ENGLAND, S.E.	Eastbourne‡	45	43	44·1
SCOTLAND, W.	Lamlash	46	45	45·7
	Ballantrae	45	43	44·0
ENGLAND, N.W.	Port Erin	48	46	47·0
ENGLAND, S.W.	Newquay	48	47	47·9
	Plymouth‡	47	46	46·7
	Salcombe	48	47	47·4
IRELAND, N.W.	Sheephaven	45	45	45·0
	Teelin	47	39	45·8
IRELAND, S.W.	Cleggan	47	44	45·8
	Seafield	48	46	47·4
IRELAND, E.				

‡ Only one observation each day.

ADDITIONAL OBSERVATIONS IN THE UPPER AIR.

No.	Date, 1909.	Station.	Wind Direction (in Degrees, E=90°, S=180°, W=270°, N=360°) and Velocity, Metres per Second. Ground Level.	500 metres.	1,000 metres.	1,500 metres.	2,000 metres.	2,500 metres.	3,000 metres.	3,500 metres	4,000 metres.	4,500 metres.	5,000 metres	5,500 metres	6,000 metres	6,500 metres	7,000 metres	7,500 metres.	8,000 metres	8,500. metres	9,000 metres.	
1	Nov. 30th, 11.1 a.m. to 11.8 a.m.	Howard Estate, Glossop, 335 m.	112°, 1	121°, 3	130°, 7	129°, 11																
2	Dec. 2nd, Noon.	Pyrton Hill, Oxon, 150 m.	110°, 3	120°, 7	130°, 6	135°, 5	130°, 4															
3	Dec. 20th, 3.20 p.m. to 3.30 p.m.	Howard Estate, Glossop, 335 m.	270°, 2	270°, 4																		
4	Dec. 21st, 1.20 p.m. to 1.30 p.m.	Howard Estate, Glossop, 335 m.	124°, 5	138°, 5	152°, 11	159°, 7	142°, 6															

NOTES.—**2.** Balloon burst a little over 2 kms. Ascensional velocity of 2·2 m. p. s. assumed,
3. Fair to overcast. Clouds Cu. and Cu.-Ni. Temperature at ground **272°·5**, humidity 96%.
4. Fair to fine. Gale at night. Clouds, Cu., St. and Ci. Temperature at ground **267°·6**, humidity 100%.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The results of observations in the Upper Air are stated in absolute or metric units. The units adopted for each element are as follows:—

ALTITUDE.—Metres (m.) or kilometres (km.). **WIND DIRECTION.**—Angular Measures from North (360°) through East (90°). **WIND VELOCITY.**—Metres per second (m.p.s.). **PRESSURE.**—Megadynes per Square Centimetre (m.g.d.). **TEMPERATURE.**—The Absolute scale of Centigrade degrees (Freezing point of water = 273°, Normal boiling point of water = 373°). Values at or below the freezing point of water (273°) are printed in heavy type.

Tables for converting from British units to absolute or metric units are given in the introduction to the Weekly Weather Report for 1909, pp. 6 and 7. See also p. 4, and the "Observer's Handbook," Ed. 1909, pp. 139–143.

Explanation of Charts.—In the two right-hand charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫→ = a heavy gale; ⟩→ = a gale; ⟶ = a fresh to strong breeze; →a light to moderate breeze; and ⊙ = a calm. In the left-hand chart the weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

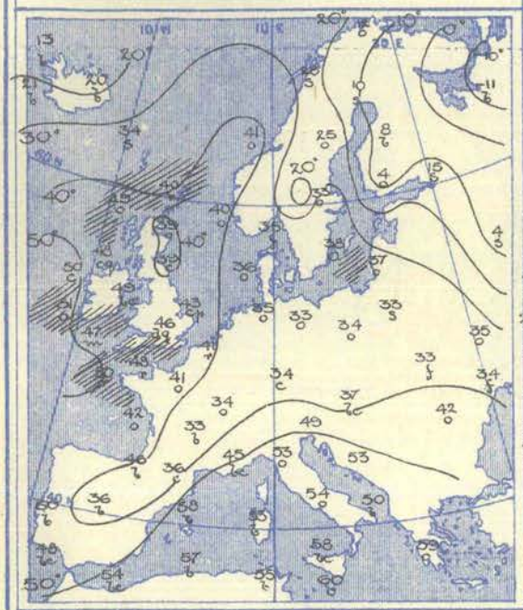
N.B.—The charts for 7 a.m. are prepared from observations made at 7 a.m. in the British Islands, Belgium, Holland, Germany, Denmark, Norway and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; at 8.36 a.m. in Portugal; and at 8 a.m. in Spain.

The chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich mean time.

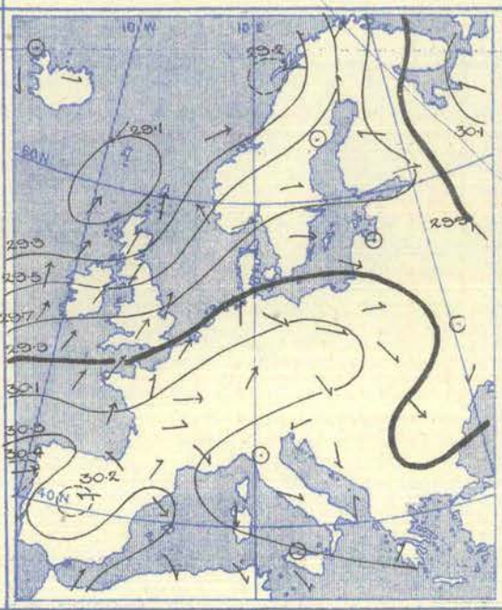
The hour of observation at British Stations was altered from 8 a.m. to 7 a.m. on July 1st, 1908.

Sunday, 26th December, 1909.

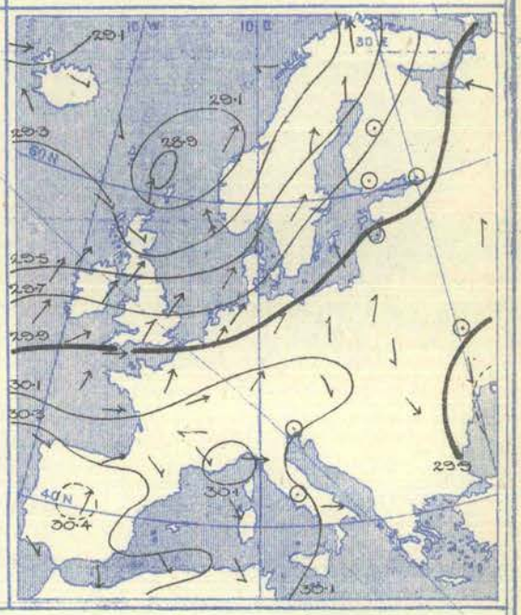
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over these Islands and their neighbourhood, with rain in several places, overcast in nearly all parts of central Europe, Russia, and Scandinavia, with snow at a few stations. Fair to fine over the southern portion of our area, and also in Iceland. Slight rain experienced later in various parts of these Islands, and heavier falls in many French localities. Some rain or snow falling in Russia, the Netherlands, and Copenhagen.

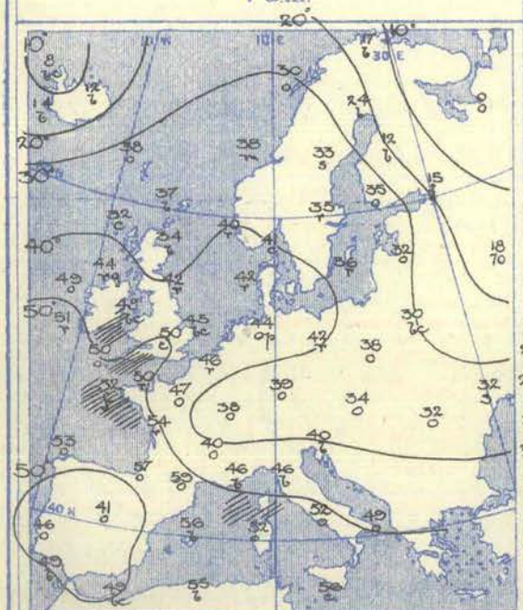
Temperature risen over the United Kingdom and the north of France, fallen quickly in the south of France. Morning readings ranging from above 55° at several stations in the far south and about 50° in some parts of Ireland and England to below 40° in central Europe and a considerable portion of France, to below 10° at most places in the north-east of Europe, and to -11° at Archangel. Rising later to above 50° in almost all parts of the United Kingdom and France, to above 60° in Italy and the Spanish Peninsula and to about 70° at some places in Algeria. Frost continuing all day in the east and north of the Continent.

Wind in morning fresh to high from South or South-West over the United Kingdom and the nearer regions of the Continent, and light from some Northerly point over the Icelandic region. Light at nearly all stations in the east and south of our area, and rather variable in direction. Veering somewhat and decreasing in force over this country during day, but increasing to a gale from the Southward in the south-west of Norway, and backing and increasing in force in Iceland.

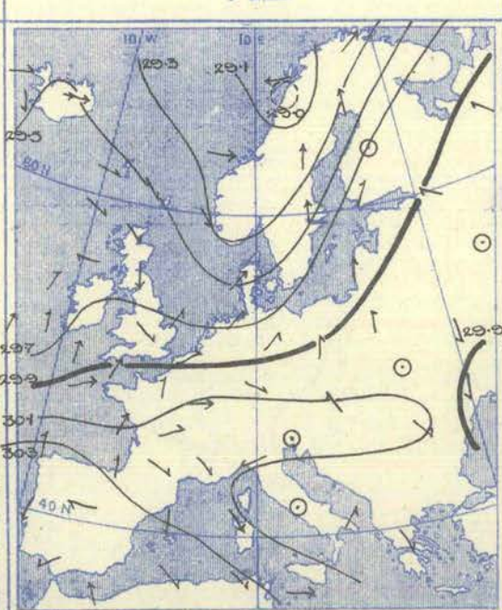
Barometer in morning relatively high both in the south-west and north-east of Europe, and low in the north-west. Below 29·1 ins. in a large depression having its minimum off the north of Scotland, and also in a smaller system over the north-west of Norway. Former depression moving eastward during day and increasing in depth. Pressure decreasing decidedly over Scandinavia and northern Russia, and a fresh fall of the mercury setting in in Iceland.

Monday, 27th December, 1909.

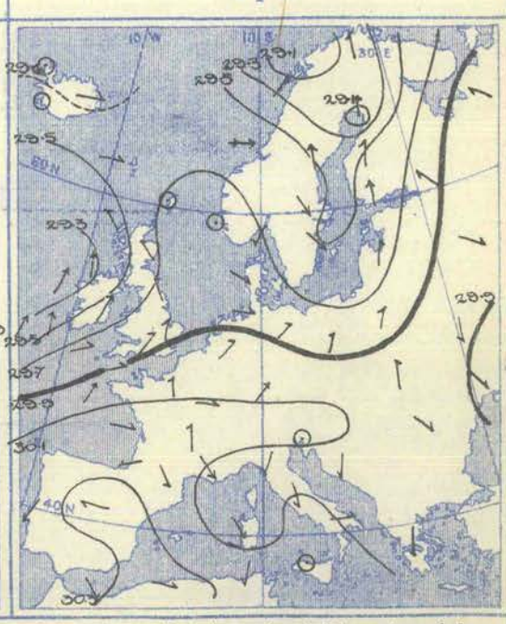
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning mainly dull and unsettled over the United Kingdom and the north and north-west of the Continent, with rain in many places, and snow at Hernösand, but temporarily bright in Scotland. Generally fine and bright over the Mediterranean region. More or less precipitation later in nearly all parts of our area except Algeria, the Spanish Peninsula, Italy, and Hungary; largest measurement, 0·75 in. at Castlebay.

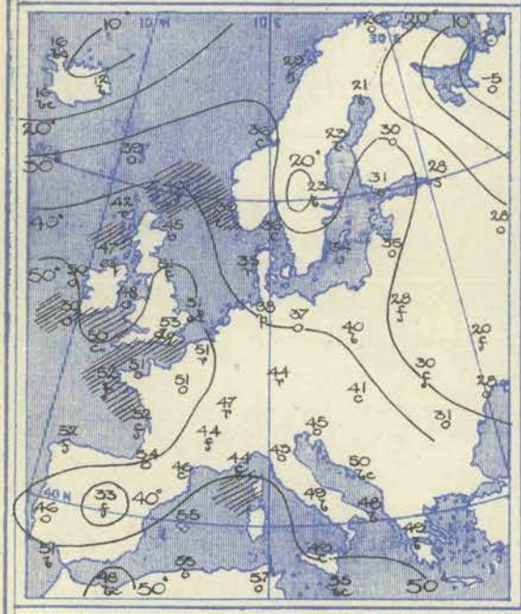
Temperature changed irregularly, risen in many parts of northern Europe, fallen in Scotland. Readings in morning 50° or rather higher on most shores of the Mediterranean, and about 50° in the south and south-west of these Islands; below 35° in the greater portion of Scotland and over a large area in eastern and northern Europe, and much below 32° in the north-east; as low as zero at Archangel. Rising to above 50° during day in various parts of these Islands, and reaching 56° at some Irish stations. Maxima much lower over the central and northern countries, but about 60° at several stations in the south, and as high as 68° at Nemours. Subsequent night very mild over England and Ireland.

Wind in morning Westerly or South-Westerly over the major portion of this country and the adjacent regions of the Continent, and Southerly over Sweden and Finland. Moderate to light as a whole, but strong on the coast of Denmark and over the Gulf of Bothnia. Light breezes, mainly from the North-Westward, prevalent over the Mediterranean. Backing to the Southward in England and to the Eastward and South-Eastward in Scotland later, and increasing somewhat in force. Veering to North-West in the south of Scandinavia and Denmark. A Westerly gale setting in at Christiansund.

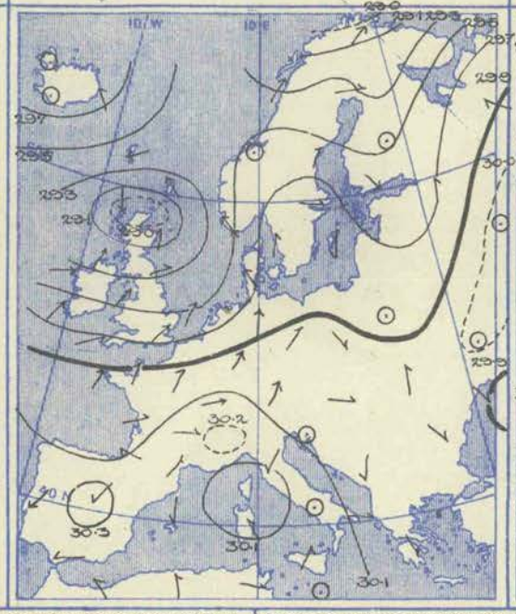
Barometer in morning ranging from above 30·4 ins. in an anticyclone centred over Spain to below 29·6 ins. off the west of Ireland, and to below 29·0 ins. in a depression in the north of Norway. A fresh depression spreading over the west and north-west of these Islands during day, and gradient increasing over the United Kingdom generally. Northern low pressure system travelling eastward over Scandinavia, and barometer rising quickly in Norway.

Tuesday, 28th December, 1909.

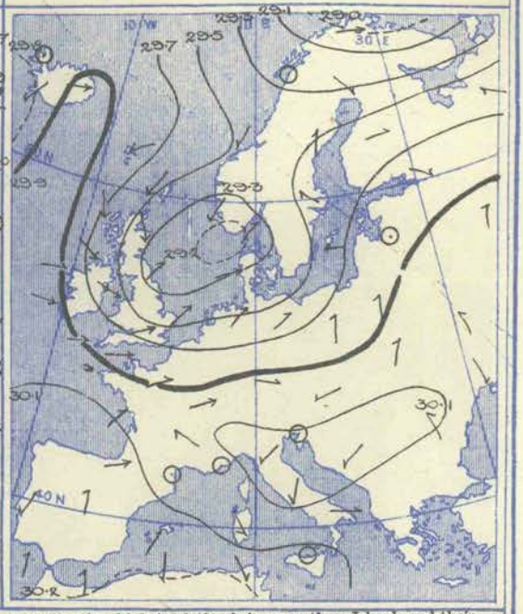
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning unsettled over the United Kingdom and the western and north-western countries of the Continent, with much cloud generally, and rain in several localities. Snow falling at Bodö and St. Petersburg, but sky nearly cloudless in Sweden. Fair to fine and bright weather prevalent over southern Europe and the Mediterranean. Some rain later at nearly all our own stations, and also over a large area in central and northern Europe; about 0·5 in. in the east of France, at Brussels, Hamburg, and Copenhagen.

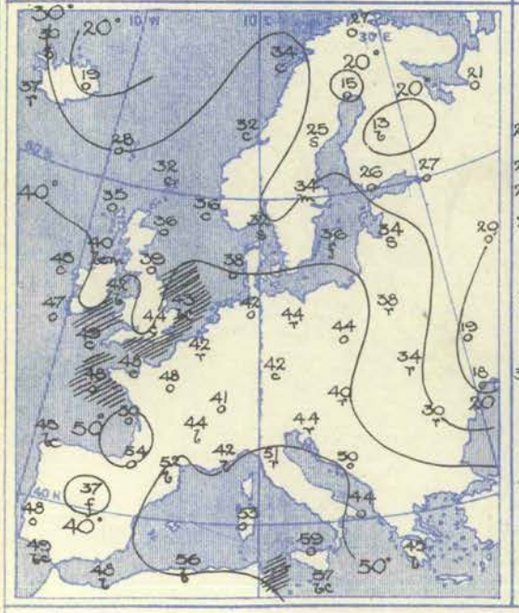
Temperature risen in Scotland, fallen in Scandinavia and Denmark, and changed little and rather irregularly in most other regions. Morning readings ranging from 50° or above at many stations in the Mediterranean region, and also in England and France, to below 32° in the east and north of the Continent, to below 20° at Karlstad, and to −5° at Archangel. Maxima during day about 65° in the extreme south of our area, and between 50° and 55° over the greater part of this country, but below 50° at almost all places in the central districts of Europe, and below 40° in several localities.

Wind in morning cyclonic very generally, the chief circulation being over these Islands and their neighbourhood. Westerly current strong to high on several parts of our western and southern coasts, in the north of France and the Netherlands, and that from South-East equally strong between Norway and Shetland. Little force elsewhere. Veering somewhat over the United Kingdom by evening, and blowing a high wind from West or North-West in Ireland, and a gale at Holyhead; becoming rather less strong on the English Channel, and in France and the Netherlands.

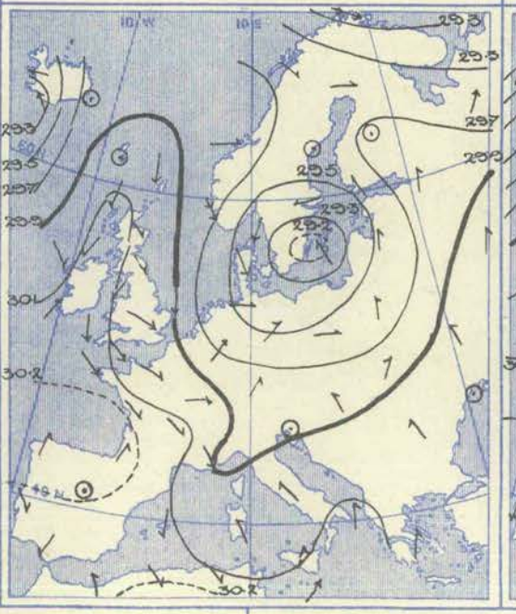
Barometer in morning below 29·0 ins. in a large depression having its minimum over the north of Scotland, and also in another system in the extreme north of Scandinavia. Relatively low in a shallow disturbance covering Sardinia and Corsica. Pressure above 30·3 ins. in central Spain, and above 30·2 ins over nearly the whole of that country and Algeria. Main depression travelling eastward across the North Sea during day and decreasing in depth; pressure recovering very quickly in its rear over Scotland. Barometer falling over Spain.

Wednesday, 29th December, 1909.

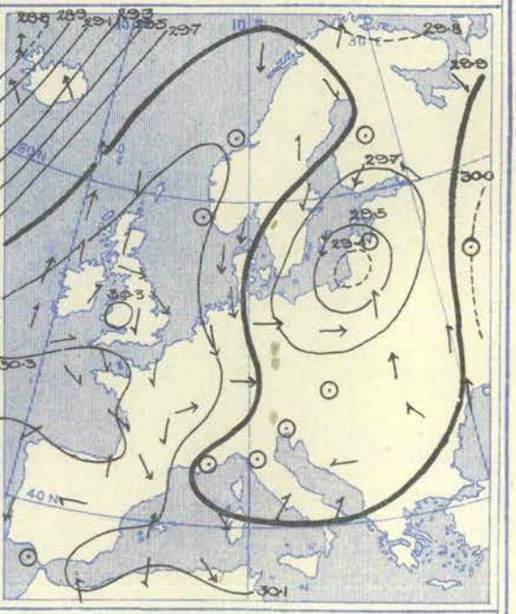
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine and bright over a considerable portion of this country, and at many stations in the Mediterranean region, but rain falling at Florence and Leghorn. Overcast or very cloudy, with rain or snow in places, over the central and northern countries of the Continent. Slight rain later in the extreme west and north-west of these Islands, and various amounts in places over a wide area on the Continent; largest measurement, 0·75 in. at Memel.

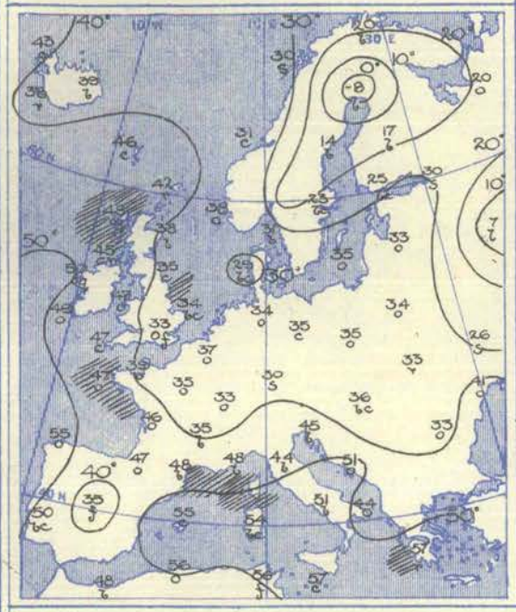
Temperature in morning lower than during the preceding day over these Islands and France. Morning readings ranging from 59° at Palermo and above 50° at numerous other stations on the shores of the Mediterranean to below 40° in various parts of the United Kingdom, and to much below 30° in the east and north-east of Europe; lowest value, 10° at Kharkoff. Maxima during day about 50° at many places on the west and north-west coasts, but only 39° at Aberdeen and 37° at Manchester. Thermometer rising to 60° and above in some Spanish and Italian districts, as well as in Algeria.

Wind in morning showing an anticyclonic movement over these Islands, and a well marked cyclonic circulation over the Baltic and the surrounding region. Northerly current strong to a gale on the eastern and southern shores of the North Sea, but moderate or light breezes prevailing in most localities. A Westerly gale reported at Vardö, and a high South-East wind at Reykjavik. A high wind from South-West prevailing at Malta, but light variable breezes over the south of our area as a whole. Southerly current increasing to a gale in Iceland during day and extending over the west and north of this country. Northerly wind blowing a strong gale at Wisby.

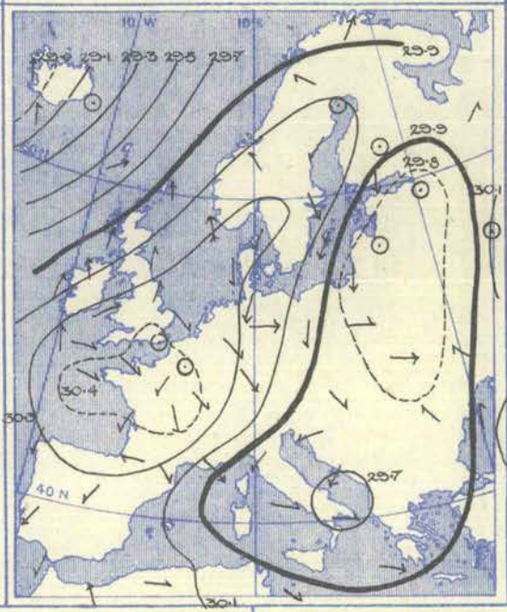
Barometer in morning above 30·2 ins. over the Bay of Biscay region; below 29·2 ins. in a depression centred near Wisby, and nearly as low in another system to the west of Iceland. An anticyclonic ridge moving eastwards over these Islands during day, and pressure falling very briskly in Iceland. Baltic depression moving south-eastward and becoming rather less deep.

Thursday, 30th December, 1909.

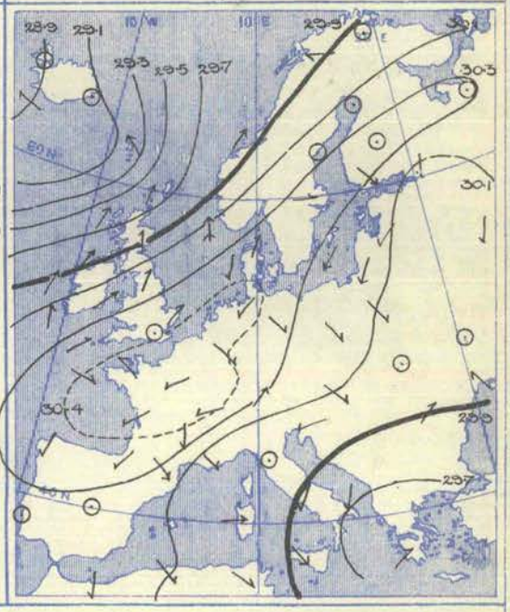
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning overcast in several localities, with rain at Sumburgh Head, and rain or snow at some places on the Continent, but fair to fine generally. Some rain later over the greater portion of these Islands, and some rain or snow at places in central Europe, and also in some southern and northern regions. Largest measurement, 1·0 in. at Patras.

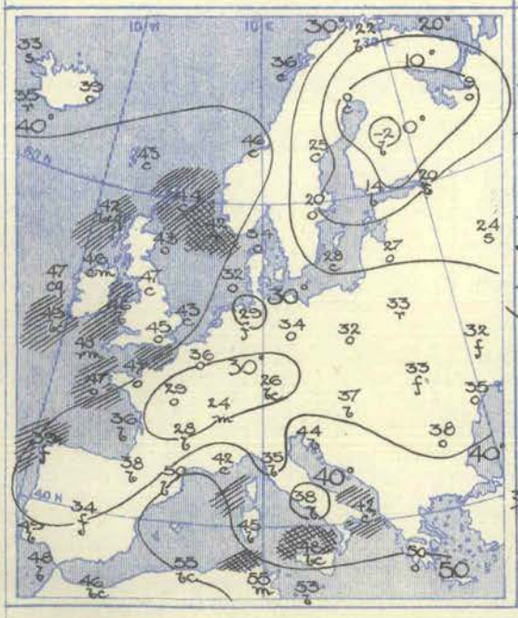
Temperature risen in Ireland and Scotland, fallen in most other regions. Morning readings below 35° in the south-east of England, 49° or 50° at our most western stations, and above 50° at various places on the shores of the Mediterranean. Below 40° over a very extensive area on the mainland of Europe, below 20° in the north-east, and as low as −8° at Haparanda. Rising during day to 68° at Sfax, to above 60° at many stations in the south of our area, and to about 50° over a considerable part of Ireland and Scotland. Maxima not much above 32° in Austria and Germany, and much below it over the east and north-east of our area.

Wind in morning anticyclonic over England and the adjacent part of the Continent, cyclonic elsewhere. North-Westerly current fresh or strong in the extreme north-west of our area, and a Southerly gale prevailing at Skudesnaes. A strong Northerly wind to a gale blowing on the Baltic, and a fresh or strong North-Westerly breeze at some stations on the Mediterranean. Increasing in force from the Southward and South-Westward during day on our northern and north-western coasts, and blowing a gale for a short time in the Hebrides.

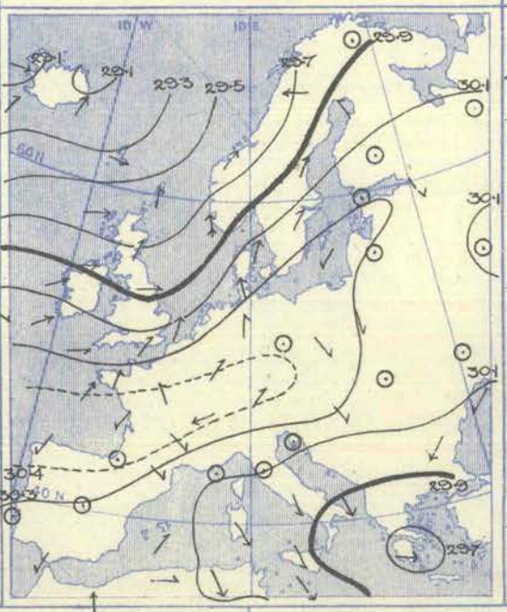
Barometer in morning ranging from above 30·4 ins. in the north of France and the south of England to below 29·8 ins. in a large depression over the west of Russia, below 29·7 ins. in a smaller system over the Adriatic and Italy, and below 29·0 ins. in a deep disturbance having its minimum to the westward of Iceland. Gradient very steep over the south-east of France and the north of Italy. Pressure decreasing very decidedly during day over Scotland and northern Ireland, and gradient growing steep. Very little change occurring in the height of the barometer in Iceland. Anticyclone receding southwards and mercury falling over England.

Friday, 31st December, 1909.

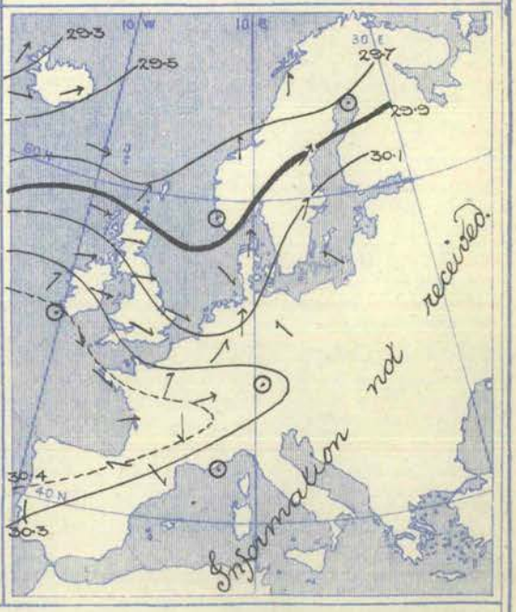
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of this country, with rain in a few places; temporarily bright at some of our stations. Some rain or snow falling in the east and north-east of the Continent, but fair or fine conditions prevailing over the Mediterranean region. A little rain later over many parts of the United Kingdom and their immediate neighbourhood, and more than 0·5 in. at Skudesnaes.

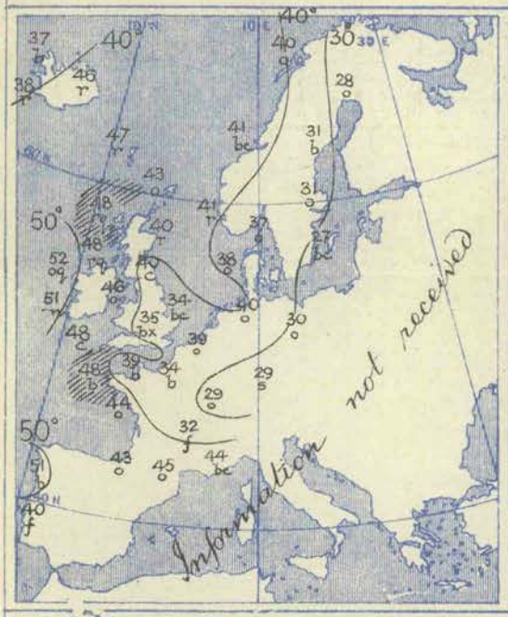
Temperature risen over England and Scandinavia, fallen in many other regions. Morning readings much below freezing point in the north-east of the Continent, and a few degrees below it in some parts of central Europe, and also in the inland districts of France. Nearly 50° in the south-west of these Islands, and above that value in certain parts of the Mediterranean region. Rising during day to about 50° in many parts of these Islands, and to rather above that value in places, but remaining as low as 32° at Lyons and 30° at Munich. Maxima above 55° in the extreme south of our area.

Wind in morning fresh to strong from some Westerly point over the greater portion of the United Kingdom; fresh or strong from the Southward at nearly all stations on the eastern shores of the North Sea, and blowing a gale at Skudesnaes. Mainly between West and North over Italy and its neighbourhood; moderate generally, but fresh to strong or high in places. Veering to West or North-West later over these Islands and decreasing somewhat in force. Gale subsiding to a calm on the south-west coast of Norway.

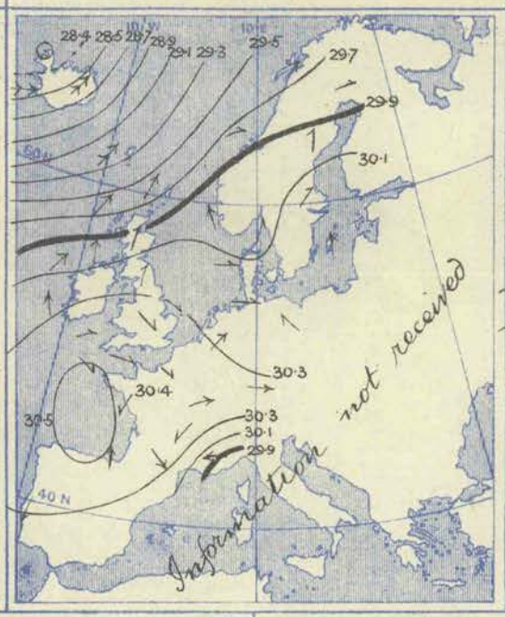
Barometer in morning above 30·4 ins. in a band of high pressure extending from the Azores region across France to South Germany; below 29·7 ins. in a depression over the Balkan Peninsula, relatively low in central Russia, and below 29·1 ins. in the east and west of Iceland. Pressure increasing briskly later in day over the north and west of the United Kingdom, and also in Iceland, but falling in Denmark, Germany, and the Netherlands.

Saturday, January 1st, 1910.

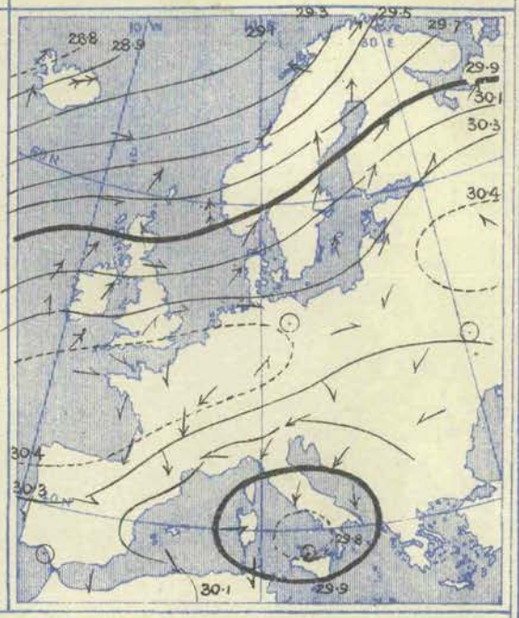
Temperature and Weather. 7 a.m.



Barometer and Wind. 7 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair to fine in the South-East of England and in the nearer regions of the Continent, as well as in Sweden, but rainy at some places in the North-West and North of these Islands, over the Icelandic district, and at Skudesnaes. Some rain falling later in all parts of this country, and atmosphere very humid. Some rain in Norway, on the coast of Algeria, and in a few other regions, but weather dry over our area as a whole.

Temperature fallen in England, risen over a considerable portion of the Continent. Morning readings ranging from 52° at Blacksod Point and 51° at Valencia and Oporto to below 40° in most parts of England and France, and to below 32° at Belfort, and over a large part of Germany and Scandinavia. Thermometer rising to about 55° in some parts of the these Islands during day; touching 56° at Leith and Shields. Maxima very little above 32° in the central countries of Europe and in the East of France, but above 60° at some stations in the far south of our area.

Wind in morning mainly South Westerly over these Islands and the North-West of the Continent, as well as in Iceland; light to moderate in most localities, but strong in the north of Ireland, high in the Hebrides, and strong to a gale in the Icelandic region. A fresh breeze from the Eastward prevailing at Nice. Continuing strong or high on our extreme northern coast during day and increasing to a fresh or strong gale on the coast of Norway. Blowing very strongly from between North and East in Italy and the South-East of France.

Barometer in morning above 30·5 ins. in an anticyclone covering the Bay of Biscay and the adjacent parts of France and Spain; below 29·9 ins. over the the Gulf of Genoa, and below 28·4 ins. in the North-West of Iceland. Gradient steep between Iceland and Scotland and Norway, and also over the South-East of France. Anticyclonic system extending a good deal further East during day. Icelandic depression travelling away North-Eastward and pressure increasing decidedly in its rear. A well-marked depression shown over the Mediterranean by evening.

VII.—OBSERVATIONS in the UPPER AIR.—Temperature (Degrees A.), Humidity (Per Cent.), and Wind Direction (in Degrees 90° = E, 180° = S, 270° = W, and 360° = N.) and Velocity (Metres per Second).

No.	Date of Observation.	Station and its Height above M.S.L.		Ground Level.	At 100 metres above Ground.	Heights in Metres above Mean Sea Level. 500 (1,640 ft.)	1,000 (3,280 ft.)	1,500 (4,920 ft.)	2,000 (6,560 ft.)	2,500 (8,200 ft.)	At Greatest Height. Metres.	Remarks.
1	1910. January 1st, 10.42 a.m. to 11.30 a.m.	Pyrton Hill, Oxon, 150 m.	Temperature	281·5°	281°	279°	276·5°				1,000	Overcast then clearing. Wind changed to N.W. in afternoon. Wind velocities estimated from pull on wire.
			Humidity ..	90%	90%	100%	100%					
			Wind	225°, 7	225°, 12	270°, 16	290°, 18					

APPARATUS USED IN THE KITE OR BALLOON ASCENTS.

No. of Ascent.	1
No. of Kites	1
Area of Surface (metres) ..	7
Capacity of Balloon (metres) ..	
Length of Wire (metres)	1,100

63, Victoria Street, London, S.W. *January 5th, 1910.*

W. N. SHAW, *Director.*

(13160—24.) Wt. 103—466. 450. 5/09. D & S.

Thirty-second Year. Vol. XXVI. [*New Series.*] } APPENDIX I. FIRST QUARTER, 1909. [*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-TWO YEARS, 1878–1909.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 25 YEARS, 1881–1905.

Eastern Districts.

YEARS.	0. SCOTLAND, N.			1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E			MEANS FOR EASTERN DISTRICTS.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%
1878	74	*13·3*	*90*	40	*5·8*	*81*	45	4·8	94	52	*4·4*	*94*	43	3·9	67	42	5·1	85	44	4·8	83
1879	54	7·8*	53	46	*9·3*	*129*	55	5·1	100	54	*6·0*	*128*	48	6·1	105	49	8·2	137	50	6·9	119
1880	49	*10·5*	*72*	41	*7·4*	*103*	34	3·2	63	38	3·2*	68	35	4·3	74	38	4·7	79	37	4·6	79
1881	60	*13·1*	*89*	46	*9·9*	*138*	51	6·3	124	47	*5·5*	*117*	42	6·4	110	39	6·7	112	45	7·0	121
1882	72	*14·8*	*101*	48	*7·0*	*37*	32	3·1	61	32	*4·1*	*87*	35	5·6	97	34	3·6	60	36	4·7	81
1883	65	*12·8*	*87*	52	*8·8*	*122*	53	5·8	114	51	*6·2*	*132*	49	7·4	128	49	7·5	125	51	7·1	122
1884	66	*17·3*	*118*	52	*8·6*	*119*	44	6·2	122	42	*3·7*	*79*	47	6·7	116	48	6·7	112	47	6·4	110
1885	63	*13·0*	*88*	46	*7·3*	*101*	45	4·4	86	48	*5·1*	*109*	50	6·1	105	45	7·3	122	47	6·0	103
Lustrum	65	*14·2*	*97*	49	*8·3*	*115*	45	5·1	100	44	*4·9*	*104*	45	6·4	110	43	6·4	107	45	6·2	107
1886	70	*13·5*	*92*	55	*7·9*	*110*	56	6·3	124	54	*4·7*	*100*	49	6·5	112	48	6·3	105	52	6·3	109
1887	60	*13·9*	*95*	43	5·3	74	38	3·8	75	33	*3·6*	*77*	35	4·1	71	34	4·1	68	37	4·2	72
1888	62	*11·7*	*80*	55	6·9	96	49	5·6	110	50	*4·9*	*104*	43	4·6	79	46	5·8	97	48	5·6	97
1889	72	*15·9*	*108*	52	4·8	67	46	4·8	94	47	*3·8*	*81*	43	5·6	97	47	5·1	85	47	4·8	83
1890	67	17·5	119	54	8·1	113	48	5·2	102	52	*5·4*	*115*	46	5·1	88	46	5·6	93	49	5·9	102
Lustrum	66	*14·5*	*99*	52	6·6	92	47	5·1	100	47	*4·5*	*96*	43	5·2	90	44	5·4	90	47	5·4	93
1891	65	14·7	100	38	5·1	71	43	3·7	73	43	*3·6*	*77*	37	4·1	71	38	5·8	97	40	4·5	78
1892	63	11·2	76	46	5·5	76	47	4·4	88	49	*3·9*	*83*	44	4·0	69	38	3·7	62	45	4·3	74
1893	65	12·8	87	51	5·9	82	44	4·5	88	49	*5·0*	*106*	48	5·0	86	48	5·9	98	48	5·2	90
1894	68	21·1	144	56	11·0	153	51	5·4	106	47	*4·0*	*85*	54	5·8	100	49	6·3	105	52	6·5	112
1895	59	9·8	67	48	6·4	89	58	7·5	147	52	*5·4*	*115*	42	5·4	93	41	4·7	78	48	5·9	102
Lustrum	64	13·9	95	48	6·8	94	49	5·1	100	48	*4·4*	*94*	45	4·9	84	43	5·3	88	47	5·3	91
1896	68	17·8	121	50	4·8	67	39	4·1	80	47	*4·7*	*100*	45	4·3	74	42	4·4	73	45	4·5	78
1897	65	11·0	75	57	6·9	96	59	6·4	125	57	*6·6*	*140*	54	7·9	136	52	9·2	153	56	7·4	128
1898	77	18·7	127	52	4·8	67	44	3·4	67	41	*3·4*	*72*	39	2·9*	50	37	3·5*	58	42	3·8*	62
1899	60	13·7	93	53	8·4	117	48	5·3	104	46	*4·6*	*98*	44	6·8	117	38	5·9	98	46	6·2	107
1900	66	11·7	80	54	8·8	122	54	7·8†	153	55	7·5†	160	50	8·6†	148	50	9·3†	155	53	8·4†	145
Lustrum	67	14·6	99	53	6·7	93	49	5·4	106	49	*5·4*	*115*	46	6·1	105	44	6·5	108	48	6·0	103
1901	64	10·6	72	52	6·5	90	55	5·6	110	52	*5·1*	*109*	49	6·6	114	45	6·1	102	51	6·0	103
1902	68	14·6	99	50	4·7*	65	41	3·7	73	42	3·2*	68	38	4·6	79	35	4·9	82	41	4·2	72
1903	75	24·6†	167	60	12·6†	175	47	5·1	100	44	*4·7*	*100*	48	7·4	128	54	6·8	113	51	7·3	126
1904	62	*13·0*	*88*	56	7·5	104	54	5·4	106	54	*6·1*	*130*	61	7·7	133	60	9·0	150	57	7·1	122
1905	78	*19·9*	*135*	56	6·5	90	39	3·0*	59	47	*3·9*	*83*	46	4·6	79	48	6·1	102	47	4·8	83
Lustrum	69	16·5	112	55	7·6	106	47	4·6	90	48	*4·6*	*98*	48	6·2	107	48	6·6	110	49	5·9	102
25 years average ..	**66**	**14·7**	—	**51**	**7·2**	—	**47**	**5·1**	—	**47**	**4·7**	—	**46**	**5·8**	—	**44**	**6·0**	—	**47**	**5·8**	—
1906	74	*17·5*	*119*	55	7·3	101	52	5·3	104	57	*7·1*	*151*	55	7·1	122	62	8·9	148	56	7·1	122
1907	70	17·2	117	43	5·2	72	42	3·3	65	39	*3·8*	*81*	36	3·5	60	34	3·6	60	38	3·9	67
1908	68	15·8	107	55	8·3	115	49	5·1	100	51	4·7	100	45	5·2	90	46	5·2	87	49	5·7	98
1909	62	10·6	72	51	8·8	122	45	5·8	114	49	4·3	91	42	4·8	83	45	5·3	88	46	5·8	100

Western Districts.

YEARS.	6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			MEANS FOR WESTERN DISTRICTS.			11. ENGLISH CHANNEL.			MEANS FOR DISTRICTS 1–10 COMBINED.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%
1878	53	*11·5*	*97*	51	7·2	92	41	6·1	86	60	8·3	93	52	7·8	76	51	8·2	85	56	6·1	77	48	6·5	84
1879	47	*9·0*	*76*	43	6·7	86	54	11·2	120	60	6·7	75	55	11·2	110	52	9·0	94	63	11·8	149	51	7·9	103
1880	49	*10·8*	*91*	40	6·2	79	47	6·9	74	49	7·5	84	50	9·8	26	47	8·2	85	50	6·0	76	42	6·4	83
1881	46	*10·0*	*84*	42	8·6	110	45	9·7	104	51	7·7	87	44	8·7	85	46	8·9	93	51	9·0	114	46	8·0	104
1882	62	*12·5*	*105*	49	7·8	100	49	7·1	76	63	8·3	93	59	9·7	95	56	9·1	95	48	5·8	73	46	6·9	90
1883	56	*12·8*	*108*	51	8·5	109	55	10·4	112	63	10·2	115	57	15·4	151	65	13·9	145	59	9·2	116	56	10·1	131
1884	68	*13·0*	*151*	57	11·5	147	62	12·2	131	70	12·2	137	67	15·4	151	65	13·9	145	59	9·2	116	56	10·1	131
1885	57	*12·5*	*105*	53	7·7	99	54	9·1	98	57	8·4	94	58	11·8	116	56	9·9	103	62	8·2	104	52	8·0	104
Lustrum	58	*13·2*	*111*	51	8·8	113	53	9·7	104	61	9·4	106	57	11·9	117	56	10·6	110	57	8·2	104	51	8·4	109
1886	57	11·2	94	54	9·0	115	57	10·8	116	58	10·0	112	55	11·2	110	56	10·4	108	68	8·9	113	54	8·4	109
1887	47	10·1	85	38	5·9	76	38	5·5*	59	47	7·3	82	40	7·6	75	42	7·3	76	42	4·3*	54	40	5·8	75
1888	41	8·6	72	51	5·0	84	48	7·1	76	47	7·2	81	41	7·6	75	46	7·1	74	61	7·3	92	47	6·3	82
1889	58	10·6	89	51	6·0	77	48	9·1	98	66	8·6	97	55	8·6	84	56	8·6	90	58	6·7	85	52	6·7	87
1890	60	13·6	114	56	8·4	108	53	8·9	96	62	8·7	98	58	12·7	125	58	10·5	109	54	8·3	105	54	8·2	106
Lustrum	53	10·8	91	50	6·9	88	49	8·3	89	56	8·4	94	50	9·5	93	52	8·8	92	57	7·1	90	49	7·1	92
1891	47	9·2	77	35	4·4*	56	38	6·8	73	49	5·5*	62	42	5·6*	55	42	6·3*	66	43	6·2	78	41	5·4*	70
1892	47	8·0	67	46	6·3	81	47	6·4	69	49	5·9	66	45	7·6	75	47	6·8	71	52	6·9	87	46	5·6	73
1893	57	10·0	84	49	6·4	82	49	8·7	94	59	7·8	88	50	8·7	85	53	8·3	86	56	7·3	92	51	6·8	88
1894	64	18·6	156	* 56	9·2	127	56	10·5	113	64	12·3	138	61	10·9	107	60	12·4	129	56	7·7	97	56	9·5	123
1895	48	6·7*	56	48	6·7	86	46	8·1	87	56	7·7	87	48	9·5	93	49	7·7	80	55	7·3	92	49	6·8	88
Lustrum	53	10·5	88	47	6·7	86	47	8·1	87	55	7·8	88	49	8·5	83	50	8·3	86	52	7·1	90	49	6·8	88
1896	61	12·1	102	53	8·3	106	50	6·9	74	56	9·2	103	51	8·8	86	54	9·1	95	53	4·9	62	50	6·8	88
1897	58	*11·1*	*93*	61	7·9	101	65	13·0	140	66	9·6	108	61	11·8	116	62	10·7	111	70	11·6	147	59	9·1	118
1898	62	10·7	90	50	7·3	94	48	6·0	65	61	7·8	88	44	6·6	65	53	7·7	80	56	4·4	56	48	5·6	73
1899	57	*13·1*	*110*	51	8·9	114	49	12·5	134	62	8·9	100	51	12·5	123	54	11·2	117	48	8·1	103	50	8·7	113
1900	54	*10·6*	*89*	52	9·2	118	56	13·5	145	60	8·2	92	56	9·9	97	56	10·3	107	65	12·4	157	55	9·4	122
Lustrum	58	*11·5*	*97*	53	8·3	106	54	10·4	112	61	8·7	98	53	9·9	97	56	9·8	102	58	8·3	105	52	7·9	103
1901	50	*8·7*	*73*	51	6·7	88	47	9·3	100	59	8·1	91	50	8·6	84	51	8·3	86	63	8·0	101	51	7·2	94
1902	60	*11·7*	*98*	53	6·5	83	47	7·6	82	63	8·7	98	49	9·1	89	55	8·7	91	51	6·0	76	48	6·5	84
1903	75	20·5†	172	63	11·9†	153	64	12·2	131	74	14·2†	160	70	15·7†	154	69	14·9†	155	66	8·8	111	60	11·1†	144
1904	57	14·1	118	56	9·6	123	62	12 3	152	67	10·6	119	67	13·1	128	62	11·9	124	67	12·8†	162	60	9·5	123
1905	64	13·3	112	56	7·4	95	51	8·7	94	70	10·0	112	63	10·3	101	61	9·9	103	59	8·0	101	54	7·4	96
Lustrum	61	*13·7*	*115*	56	8·4	108	54	10·0	108	67	10·3	116	60	11·4	112	60	10·8	113	61	8·7	110	55	8·4	109
25 years average ..	**57**	**11·9**	—	**51**	**7·8**	—	**51**	**9·3**	—	**60**	**8·9**	—	**54**	**10·2**	—	**55**	**9·6**	—	**57**	**7·9**	—	**51**	**7·7**	—
1906	58	14·1	118	57	11·2	144	61	13·8†	148	73	11·3	127	67	10·9	107	63	12·3	128	70	10·0	127	60	9·7	126
1907	55	11·8	99	49	7·1	91	49	6·1	66	62	9·2	103	55	5·7	56	54	8·0	83	44	4·3*	54	46	6·0	78
1908	58	13·3	112	57	9·0	115	51	7·6	82	62	9·2	103	60	9·9	97	54	9·0	94	55	8·1	103	50	7·4	96
1909	56	11·2	94	48	7·2	92	51	7·6	82	62	9·2	103	60	9·9	97	54	9·0	94	55	8·1	103	50	7·4	96

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 25 years average in each district is shown in clarendon type.

* Minimum and † Maximum values 1878–1909.

Meteorological Office, 63, Victoria Street, London, S.W.
April, 1909.

W. N. SHAW,
Director.

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 25 YEARS, 1881–1905.

YEARS.	0. SCOTLAND, N.		Eastern Districts. 1. SCOTLAND, E		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.E.		MEANS FOR EASTERN DISTRICTS.		Western Districts. 6. SCOTLAND, W.		7. ENGLAND, N.W. AND NORTH WALES.		8. SOUTH WALES AND ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR WESTERN DISTRICTS.		11. ENGLISH CHANNEL.		MEANS FOR DISTRICTS 1–10 COMBINED.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
1878 ..	*39·2*	+ *0·9*	*39·3*	+ *1·5*	40·8	+ 1·7	40·6	+ 1·6	41·8	+ 2·7	41·7	+ 1·3	40·8	+ 1·7	*41·6*	+ *1·9*	43·2	+ 2·2	44·2	+ 2·6	42·5	+ 1·6	45·1	+ 2·5	43·1	+ 2·1	43·8	- 0·7	42·0	+ 1·9
1879 ..	*35·4*	- *2·9*	*33·4*	- *4·4*	35·9	- 3·2	36·5	- 2·5	36·4	- 2·7	37·8	- 2·6	36·0	- 3·1	*36·1*	- *3·6*	36·8	- 3·2	40·8	- 0·8	38·0	- 2·9	40·5	- 2·1	38·4	- 2·6	42·4	- 2·1	37·2	- 2·9
1880 ..	*40·2*	+ *1·9*	*38·8*	+ *1·0*	39·5	+ 0·4	39·2	+ 0·2	39·9	+ 0·8	40·5	+ 0·1	39·6	+ 0·5	*40·6*	+ *0·9*	40·6	+ 0·6	43·5	+ 1·9	42·2	+ 1·3	44·1	+ 1·5	42·2	+ 1·2	42·4	- 2·1	40·9	+ 0·8
1881 ..	34·0*	- 4·3	32·4*	- 5·4	34·3*	- 4·8	36·1	- 2·9	35·8	- 3·3	38·2	- 2·2	35·4	- 3·7	35·0*	- 4·7	36·6	- 3·4	39·9	- 1·7	37·5	- 3·4	39·8	- 2·8	37·8	- 3·2	44·5	0·0	36·6	- 3·5
1882 ..	41·4†	+ 3·1	42·0†	+ 4·2	42·8†	+ 3·7	42·1	+ 3·1	42·6†	+ 3·5	43·5	+ 3·1	42·6†	+ 3·5	43·4†	+ 3·7	43·5†	+ 3·5	44·9†	+ 3·3	44·8†	+ 3·9	46·0†	+ 3·4	44·5†	+ 3·5	44·7	+ 0·2	43·6†	+ 3·5
1883 ..	*38·2*	- *0·1*	*37·9*	+ *0·1*	38·8	- 0·3	39·0	0·0	39·2	+ 0·1	40·8	+ 0·4	39·1	0·0	*40·0*	+ *0·3*	40·1	+ 0·1	42·2	+ 0·6	40·9	0·0	42·5	- 0·1	41·1	+ 0·1	44·8	+ 0·3	40·1	0·0
1884 ..	*39.6*	+ *1·3*	*40·2*	+ *2·4*	41·9	+ 2·8	42·4†	+ 3·4	42·6†	+ 3·5	43·8	+ 3·4	42·2	+ 3·1	*42·0*	+ *2·3*	42·4	+ 2·4	44·5	+ 2·9	42·7	+ 1·8	44·8	+ 2·2	43·3	+ 2·3	46·5	+ 2·0	42·8	+ 2·7
1885 ..	*37·9*	- *0·4*	*37·4*	- *0·4*	39·2	+ 0·1	39·2	+ 0·2	39·3	+ 0·2	40·7	+ 0·3	39·2	+ 0·1	*39·3*	- *0·4*	39·7	- 0·3	41·9	+ 0·3	40·6	- 0·3	42·2	- 0·4	40·7	- 0·3	43·9	- 0·6	40·0	- 0·1
Lustrum ..	*38·2*	- *0·1*	*38·0*	+ *0·2*	39·4	+ 0·3	39·8	+ 0·8	39·9	+ 0·8	41·4	+ 1·0	39·7	+ 0·6	*39·9*	+ *0·2*	40·5	+ 0·5	42·7	+ 1·1	41·3	+ 0·4	43·1	+ 0·5	41·5	+ 0·5	44·9	+ 0·4	40·6	+ 0·5
1886 ..	*36·1*	- *2·3*	35·1	- 2·7	36·2	- 2·9	35·6	- 3·4	36·0	- 3·1	37·2	- 3·2	36·0	- 3·1	*36·9*	- *2·8*	36·9	- 3·1	38·4	- 3·2	38·6	- 2·3	40·0	- 2·8	38·2	- 2·8	42·0	- 2·5	37·1	- 3·0
1887 ..	*39·5*	+ *1·2*	39·1	+ 1·3	38·7	- 0·4	37·5	- 1·5	37·8	- 1·3	38·7	- 1·7	38·4	- 0·7	39·8	+ 0·1	39·0	- 1·0	40·4	- 1·2	41·3	+ 0·4	42·3	- 0·3	40·6	- 0·4	42·7	- 1·8	39·5	- 0·6
1888 ..	*36·5*	- *1·8*	36·3	- 1·5	37·3	- 1·8	36·5	- 2·5	36·8	- 2·3	37·4	- 3·0	36·9	- 2·2	38·0	- 1·7	37·7	- 2·3	38·5	- 3·1	39·4	- 1·5	40·5	- 2·1	38·8	- 2·2	41·6	- 2·9	37·9	- 2·2
1889 ..	*38·7*	+ *0·4*	38·6	+ 0·8	38·6	- 0·5	37·5	- 1·5	38·2	- 0·9	39·0	- 1·4	38·4	- 0·7	40·1	+ 0·4	39·7	- 0·3	40·8	- 0·8	41·3	+ 0·4	42·9	+ 0·3	41·0	0·0	44·1	- 0·4	39·7	- 0·4
1890 ..	*40·3*	+ *2·0*	39·8	+ 2·0	40·7	+ 1·6	40·1	+ 1·1	40·4	+ 1·3	41·6	+ 1·2	40·5	+ 1·4	41·3	+ 1·6	41·2	+ 1·2	42·7	+ 1·1	42·0	+ 1·1	43·5	+ 0·9	42·1	+ 1·1	45·7	+ 1·2	41·3	+ 1·2
Lustrum ..	*38·2*	- *0·1*	37·8	0·0	38·3	- 0·8	37·4	- 1·6	37·8	- 1·3	38·8	- 1·6	38·0	- 1·1	39·2	- 0·5	38·9	- 1·1	40·2	- 1·4	40·5	- 0·4	41·8	- 0·8	40·1	- 0·9	43·2	- 1·3	39·1	- 1·0
1891 ..	38·4	+ 0·1	38·0	+ 0·2	37·9	- 1·2	37·4	- 1·6	38·0	- 1·1	38·4	- 2·0	37·9	- 1·2	39·6	- 0·1	39·5	- 0·5	40·2	- 1·4	40·8	- 0·1	42·3	- 0·3	40·5	- 0·5	43·1	- 1·4	39·2	- 0·9
1892 ..	36·3	- 2·0	36·0	- 1·8	36·9	- 2·2	36·3	- 2·7	36·6	- 2·5	38·3	- 2·1	36·8	- 2·3	37·7	- 2·0	37·9	- 2·1	39·7	- 1·9	39·2	- 1·7	40·3	- 2·0	39·0	- 2·0	43·0	- 1·5	37·9	- 2·2
1893 ..	38·8	+ 0·5	38·8	+ 1·0	40·2	+ 1·1	39·8	+ 0·8	40·3	+ 1·2	41·3	+ 0·9	40·1	+ 1·0	40·6	+ 0·9	41·2	+ 1·2	42·8	+ 1·2	42·2	+ 1·3	43·8	+ 1·2	42·1	+ 1·1	46·0	+ 1·5	41·1	+ 1·0
1894 ..	39·2	+ 0·9	38·8	+ 1·0	39·8	+ 0·7	40·0	+ 1·0	40·4	+ 1·3	41·8	+ 1·4	40·2	+ 1·1	41·0	+ 1·3	42·0	+ 2·0	42·7	+ 1·1	41·8	+ 0·9	43·6	+ 1·0	42·2	+ 1·2	45·5	+ 1·0	41·2	+ 1·1
1895 ..	34·3	- 4·0	32·5	- 5·3	34·9	- 4·2	34·4*	- 4·6	33·6*	- 5·5	35·3*	- 5·1	34·1*	- 5·0	34·7	- 5·0	35·0*	- 5·0	36·4*	- 5·2	36·5*	- 4·4	38·4*	- 4·2	36·2*	- 4·5	39·9*	- 4·6	35·2*	- 4·9
Lustrum ..	37·4	- 0·9	36·8	- 1·0	37·9	- 1·2	37·6	- 1·4	37·8	- 1·3	39·0	- 1·4	37·8	- 1·3	38·7	- 1·0	39·1	- 0·9	40·4	- 1·2	40·1	- 0·8	41·7	- 0·9	40·9	- 1·0	43·5	- 1·0	38·9	- 1·2
1896 ..	41·0	+ 2·7	40·4	+ 2·6	41·2	+ 2·1	40·9	+ 1·9	41·4	+ 2·3	42·7	+ 2·3	41·3	+ 2·2	42·2	+ 2·5	42·5	+ 2·5	43·9	+ 2·3	43·4	+ 2·5	45·5	+ 2·9	43·5	+ 2·5	46·7	+ 2·2	42·4	+ 2·3
1897 ..	37·5	- 0·8	37·4	- 0·4	39·4	+ 0·3	39·8	+ 0·8	39·8	+ 0·7	41·7	+ 1·3	39·6	+ 0·5	39·5	- 0·2	40·4	+ 0·4	42·5	+ 0·9	40·6	- 0·3	42·8	+ 0·2	41·2	+ 0·2	45·7	+ 1·2	40·4	+ 0·3
1898 ..	40·1	+ 1·8	40·3	+ 2·5	41·1	+ 2·0	40·5	+ 1·5	40·7	+ 1·6	42·2	+ 1·8	41·0	+ 1·9	42·0	+ 2·3	42·1	+ 2·1	43·0	+ 1·4	42·7	+ 1·8	44·3	+ 1·7	42·5	+ 1·8	45·8	+ 1·3	41·9	+ 1·8
1899 ..	38·3	0·0	38·0	+ 0·2	40·3	+ 1·2	41·1	+ 2·1	40·7	+ 1·6	42·7	+ 2·3	40·6	+ 1·5	40·6	+ 0·9	41·8	+ 1·8	43·4	+ 1·8	41·7	+ 0·8	43·8	+ 1·2	42·3	+ 1·3	46·8	+ 2·3	41·5	+ 1·4
1900 ..	36·6	- 1·7	35·9	- 1·9	37·6	- 1·5	38·1	- 0·9	37·8	- 1·3	39·9	- 0·5	37·9	- 1·2	38·2	- 1·5	38·6	- 1·4	40·7	- 0·9	39·0	- 1·9	40·1	- 2·5	39·3	- 1·7	44·6	+ 0·1	38·6	- 1·5
Lustrum ..	38·7	+ 0·4	38·4	+ 0·6	39·9	+ 0·8	40·1	+ 1·1	40·1	+ 1·0	41·8	+ 1·4	40·1	+ 1·0	40·5	+ 0·8	41·1	+ 1·1	42·7	+ 1·1	41·5	+ 0·6	43·3	+ 0·7	41·8	+ 0·8	45·9	+ 1·4	41·0	+ 0·9
1901 ..	38·0	- 0·3	37·0	- 0·8	38·0	- 1·1	37·2	- 1·8	37·3	- 1·8	38·5	- 1·9	37·6	- 1·5	39·0	- 0·7	38·5	- 1·5	39·7	- 1·9	40·0	- 0·9	40·8	- 1·8	39·6	- 1·4	43·2	- 1·3	38·6	- 1·5
1902 ..	37·9	- 0·4	37·4	- 0·4	39·5	+ 0·4	39·7	+ 0·7	39·8	+ 0·7	41·2	+ 0·8	39·5	+ 0·4	39·7	0·0	40·2	+ 0·2	42·1	+ 0·5	41·2	+ 0·3	43·2	+ 0·6	41·3	+ 0·3	45·3	+ 0·8	40·4	+ 0·3
1903 ..	39·7	+ 1·4	39·7	+ 1·9	42·2	+ 3·1	43·3	+ 4·3	42·4	+ 3·3	44·1†	+ 3·7	42·3	+ 3·2	42·0	+ 2·3	42·9	+ 2·9	44·6	+ 3·0	42·4	+ 1·5	44·3	+ 1·7	43·2	+ 2·2	47·0†	+ 2·5	42·8	+ 2·7
1904 ..	38·4	+ 0·1	37·4	- 0·4	38·9	- 0·2	39·2	+ 0·2	38·9	- 0·2	40·2	- 0·2	38·9	- 0·2	39·5	- 0·2	39·4	- 0·6	41·6	0·0	40·2	- 0·7	42·0	- 0·6	40·5	- 0·5	44·2	- 0·3	39·7	- 0·4
1905 ..	*40·1*	+ *1·8*	39·8	+ 2·0	41·0	+ 1·9	41·1	+ 2·1	40·9	+ 1·8	42·0	+ 1·6	41·0	+ 1·9	41·6	+ 1·9	41·8	+ 1·8	42·8	+ 1·2	42·3	+ 1·4	44·1	+ 1·5	42·5	+ 1·5	45·8	+ 1·3	41·8	+ 1·7
Lustrum ..	38·8	+ 0·6	38·3	+ 0·5	39·9	+ 0·8	40·1	+ 1·1	39·9	+ 0·8	41·2	+ 0·8	39·9	+ 0·8	40·4	+ 0·7	40·6	+ 0·6	42·2	+ 0·6	41·2	+ 0·3	42·9	+ 0·3	41·4	+ 0·4	45·1	+ 0·6	40·7	+ 0·6
25 yrs. Av.	**38·3**	—	**37·8**	—	**39·1**	—	**39·0**	—	**39·1**	—	**40·4**	—	**39·1**	—	**39·7**	—	**40·0**	—	**41·6**	—	**40·9**	—	**42·6**	—	**41·0**	—	**44·5**	—	**40·1**	—
1906 ..	*37·7*	- *0·6*	37·8	0·0	39·7	+ 0·6	40·2	+ 1·2	40·0	+ 0·9	41·0	+ 0·6	39·7	+ 0·6	40·0	+ 0·3	40·2	+ 0·2	41·5	- 0·1	41·0	+ 0·1	43·0	+ 0·4	41·1	+ 0·1	44·8	+ 0·3	40·4	+ 0·3
1907 ..	38·5	+ 0·2	38·4	+ 0·6	39·3	+ 0·2	38·9	- 0·1	39·3	+ 0·2	39·9	- 0·5	39·2	+ 0·1	40·2	+ 0·5	40·0	0·0	40·6	- 1·0	41·6	+ 0·7	43·1	+ 0·5	41·1	+ 0·1	44·2	- 0·3	40·2	+ 0·1
1908 ..	38·8	+ 0·5	37·7	- 0·1	38·6	- 0·5	38·5	- 0·5	38·3	- 0·8	39·3	- 1·1	38·5	- 0·6	39·8	+ 0·1	39·3	- 0·7	40·4	- 1·2	41·5	+ 0·6	42·4	- 0·2	40·7	- 0·3	43·9	- 0·6	39·6	- 0·5
1909 ..	38·1	- 0·2	36·7	- 1·1	37·5	- 1·6	37·7	- 1·3	37·2	- 1·9	38·2	- 2·2	37·5	- 1·6	39·0	- 0·7	38·6	- 1·4	39·6	- 2·0	41·1	+ 0·2	42·2	- 0·4	40·1	- 0·9	43·5	- 1·0	38·8	- 1·3

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V] 1908.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, WITH PERCENTAGES OF AVERAGE FOR 25 YEARS, 1881–1905.

YEARS.	0. SCOTLAND, N.		Eastern Districts. 1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.E.		MEANS FOR EASTERN DISTRICTS		Western Districts. 6. SCOTLAND, W.		7. ENGLAND, N.W. AND NORTH WALES.		8. SOUTH WALES AND ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR WESTERN DISTRICTS.		11. ENGLISH CHANNEL.		MEANS FOR DISTRICTS 1–10 COMBINED.	
	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.
		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%
1881	*·16*	*89*	*·26*	*118*	*·24*	*100*	·27	108	·26	118	*·27*	*108*	·26	108	·24	114	·25	119	*·31*	*124*	·26	118	·31†	124	·27	117	·32	103	·27	113
1882	*·15*	*83*	*·28*	*127*	*·26*	*108*	·24	96	·21	95	*·27*	*108*	·25	104	·15	71	·16	76	*·23*	*92*	·23	105	·23	92	·20	87	·32	103	·22	92
1883	*·22*	*122*	*·26*	*118*	*·30*	*125*	·31	124	·29	132	·31	124	·29	121	·25	119	·27	129	*·31*	*124*	·24	109	·28	112	·27	117	·38	123	·28	117
1884	*·16*	*89*	*·19*	*86*	*·17*	*71*	·21	84	·18	82	·20	80	·19	79	·14*	67	·13*	62	·16*	64	·14*	64	·17†	68	·15*	65	·31	100	·17*	71
1885	*·15*	*83*	*·20*	*91*	·11*	46	·22	88	·18	82	·19	76	·18*	75	·19	90	·15	71	*·20*	*80*	·22	100	·26	104	·20	87	·27	87	·19	79
Lustrum	*·17*	*94*	*·24*	*109*	*·22*	*92*	·25	100	·22	100	·25	100	·24	100	·19	90	·19	90	*·24*	*96*	·22	100	·25	100	·22	96	·32	103	·23	96
1886	*·18*	*100*	*·18*	*82*	*·19*	*79*	·20	80	·17	77	·18	72	·18*	75	·15	71	·17	81	*·17*	*68*	·14*	64	·20	80	·17	74	·26	84	·18	75
1887	*·17*	*94*	·28	127	*·31*	*129*	·31	124	·25	114	·26	104	·28	117	·23	110	·26	124	*·31*	*124*	·25	114	·31†	124	·27	117	·41†	132	·28	117
1888	*·19*	*106*	·19	86	*·22*	*92*	18*	72	·18	82	16*	64	·19	79	·24	114	·22	105	*·24*	*96*	·20	91	·26	104	·23	100	·24*	77	·21	88
1889	·13*	72	·21	95	*·23*	*96*	·20	80	·19	86	·19	76	·20	83	·21	100	·20	95	*·23*	*92*	·18	82	·24	96	·21	91	·30	97	·20	83
1890	·15	83	·20	91	*·20*	*83*	·24	96	·21	95	·22	88	·21	88	·17	81	·19	90	*·24*	*96*	·21	95	·25	100	·21	91	·31	100	·21	88
Lustrum	*·16*	*89*	·21	95	*·23*	*96*	·23	92	·20	91	·20	80	·21	88	·20	95	·21	100	*·24*	*96*	·20	91	·25	100	·22	96	·30	97	·22	92
1891	*·21*	*117*	*·27*	*103*	*·28*	*117*	·29	116	·27	123	·28	112	·28	117	·25	119	·26	124	*·30*	*120*	·27†	123	·30	120	·28†	122	·41†	132	·28	117
1892	·23†	128	*·26*	*118*	*·28*	*117*	·24	96	·24	109	·27	108	·26	108	·25	119	·26	124	*·31*	*124*	·23	105	·27	108	·26	113	·30	97	·26	108
1893	*·19*	*106*	*·27*	*103*	*·29*	*121*	·31	124	·30	136	·31	124	·30	125	·24	114	*·24*	*114*	*·29*	*116*	·22	100	·24	96	·25	109	·37	119	·27	113
1894	*·19*	*106*	·31†	141	*·34*	*142*	·35†	140	·30	136	·35†	140	·33	138	·26†	124	*·26*	*124*	·33†	132	·26	118	·29	116	·28†	122	·38	123	·31†	129
1895	*·22*	*122*	*·20*	*91*	*·26*	*108*	·25	100	·23	105	·28	112	·24	100	·22	105	*·19*	*90*	*·29*	*116*	·22	100	·26	104	·24	104	·35	113	·24	100
Lustrum	*·21*	*117*	*·26*	*118*	*·29*	*121*	·29	116	·27	123	·30	120	·28	117	·24	114	*·24*	*114*	*·30*	*120*	·24	109	·27	108	·26	113	·36	116	·27	113
1896	*·14*	*78*	*·22*	*100*	*·20*	*83*	·20	80	·19	86	·20	80	·20	83	·16	76	*·15*	*71*	*·20*	*80*	·17	77	·19	76	·17	74	·26	84	·19	79
1897	·16	89	*·18*	*82*	*·22*	*92*	·21	84	·20	91	·22	88	·21	88	·19	90	·19	90	*·22*	*88*	·21	95	·24	96	·21	91	·24*	77	·21	88
1898	·19	106	*·26*	*118*	*·27*	*113*	·24	96	·22	100	·23	92	·24	100	·23	110	·26	124	*·26*	*104*	·23	105	·26	104	·25	109	·29	94	·24	100
1899	·20	111	*·25*	*114*	*·28*	*117*	·35†	140	·29	132	·35†	140	·30	125	·22	105	·28	133	*·30*	*120*	·27†	123	·29	116	·27	117	·35	113	·29	121
1900	·20	111	·21	95	*·20*	*83*	·23	92	·18	82	*·22*	*88*	·21	88	·22	105	·21	100	*·23*	*92*	·21	109	·26	104	·23	100	·25	81	·22	92
Lustrum	·18	100	*·22*	*100*	*·23*	*96*	·25	100	·22	100	·24	96	·23	96	·20	95	·22	105	*·24*	*96*	·22	100	·25	100	·23	100	·28	90	·23	96
1901	·18	100	·18	82	*·20*	*83*	·20	80	·16*	73	*·20*	*80*	·19	79	·21	100	·22	105	*·24*	*96*	·21	95	·24	96	·22	96	·24*	77	·21	88
1902	·17	94	·19	86	*·22*	*92*	·25	100	·19	86	·25	100	·22	92	·17	81	·21	100	*·22*	*88*	·17	77	·22	88	·20	87	·26	84	·21	88
1903	·14	78	·18	82	·23	96	·37	108	·21	95	·25	100	·23	96	·16	76	·20	95	·21	84	·20	91	·20	80	·19	83	·29	94	·21	88
1904	·17	94	·17*	77	·17	71	·21	84	·16*	73	·21	84	·18*	75	·16	76	·17	81	·21	84	·17	77	·19	76	·18	78	·27	87	·18	75
1905	·15	83	·22	100	·27	113	·31	124	·25	114	·29	116	·27	113	·25	119	·25	119	·27	108	·26	118	·27	108	·26	113	·30	97	·27	113
Lustrum	·16	89	·19	86	·22	92	·25	100	·19	86	·24	96	·22	92	·19	90	·21	100	*·23*	*92*	·20	91	·22	88	·21	91	·27	87	·22	92
25 years average	**·18**	—	**·22**	—	**·24**	—	**·25**	—	**·22**	—	**·25**	—	**·24**	—	**·21**	—	**·21**	—	**·25**	—	**·22**	—	**·25**	—	**·23**	—	**·31**	—	**·24**	—
1906	·19	106	·27	123	·28	117	·27	108	·25	114	·29	116	·27	113	·26†	124	·25	119	·29	116	·23	105	·25	100	·26	113	·32	103	·27	113
1907	·19	106	·31†	141	·36†	150	·35†	140	·32†	145	·35†	140	·34†	142	·24	114	·31†	148	·32	128	·24	109	·26	104	·27	117	·35	113	·30	125
1908	·17	94	·22	100	·24	100	·23	92	·20	91	·25	100	·23	96	·18	86	·22	105	·25	100	·22	100	·22	88	·22	96	·30	97	·22	92
1909	·17	94	·17*	77	·22	92	·25	100	·22	100	·27	108	·22	92	·19	90	·25	119	·27	108	·18	82	·22	88	·22	96	·33	106	·22	92

(13908—24.) Wt. 103—466. 450. 7/09. D & S.

Thirty-second Year.
VOL. XXVI. [*New Series.*] } APPENDIX I. SECOND QUARTER, 1909. [*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-TWO YEARS, 1878–1909.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 25 YEARS, 1881–1905.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E			MEANS FOR EASTERN DISTRICTS			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			MEANS FOR WESTERN DISTRICTS.			11. ENGLISH CHANNEL.			MEANS FOR DISTRICTS 1-10 COMBINED.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%
1878	38	4·7*	87	38	7·7	*126*	44	7·6	146	54	8·2	152	56	9·2	156	51	8·4	162	48	8·2	146	42	*9·1*	*108*	48	8·3	128	58	11·6†	173	49	9·1	123	62	13·9†	183	52	10·4	142	61	10·0†	189	51	9·3	143
1879	46	*5·7*	*69*	56	*10·3*†	*169*	57	8·3	160	58	10·1†	187	64	10·0†	189	58	10·3†	198	63	9·8†	175	51	*10·4*	*124*	55	8·4	129	61	11·3	169	58	10·0	135	63	11·6	153	57	10·3	141	64	8·9	159	59	10·1†	155
1880	46	*6·3*	*76*	43	*6·0*	*98*	44	6·6	127	50	6·3	117	48	7·2	122	43	5·5	106	45	6·3	113	46	*8·4*	*100*	40	6·7	103	38	5·4	81	53	8·5	115	46	7·8	103	45	7·4	101	49	4·6	82	45	6·9	106
1881	49	*8·9*	*107*	45	*6·9*	*113*	41	4·5	87	35	4·3	80	37	4·3	73	33	4·2	81	38	4·8	86	49	*9·7*	*115*	44	8·6	132	42	6·1	91	55	8·5	115	48	8·3	109	47	8·2	112	41	4·6	82	43	6·5	100
1882	51	*9·5*	*114*	51	*9·1*	*149*	47	9·2†	177	48	8·0	148	49	9·9	168	47	7·9	152	48	8·8	157	51	*11·0*	*131*	51	10·6†	163	55	10·2	152	60	9·4	127	56	10·3	136	55	10·3	141	49	6·6	118	52	9·6	148
1883	48	*7·3*	*88*	40	*4·7*	*77*	39	6·0	115	36	6·7	124	39	7·2	122	36	5·1	98	38	5·9	105	45	*8·2*	*98*	38	5·9	91	42	6·1	91	52	6·2	84	44	7·6	100	44	6·8	93	42	5·9	105	41	6·4	98
1884	48	*8·1*	*98*	39	*4·4*	*72*	39	3·2	62	33	3·8	70	32	4·2	71	31	4·7	90	35	4·1	73	40	*5·6*	*67*	32	3·8*	58	32	4·9	73	42	5·8	78	38	4·6	61	37	4·9	67	42	4·9	88	37	4·5	69
1885	61	*8·7*	*105*	46	*6·8*	*111*	48	6·1	117	43	6·5	120	48	6·8	115	43	6·0	115	46	6·4	114	48	*7·7*	*92*	45	6·0	92	50	8·7	130	50	6·1	82	46	7·8	103	48	7·3	100	50	6·0	107	47	6·9	106
Lustrum	51	*8·5*	*102*	44	*6·4*	*105*	43	5·8	112	39	5·9	109	41	6·5	110	38	5·6	108	41	6·0	107	47	*8·4*	*100*	42	7·0	108	44	7·2	107	52	7·2	97	46	7·7	101	46	7·5	103	45	5·6	106	44	6·8	105
1886	59	*8·5*	*103*	46	*7·8*	*128*	46	6·1	117	43	5·2	96	50	9·4	159	45	6·4	123	46	7·0	125	48	8·8	105	49	9·4	145	46	7·3	109	50	7·9	107	50	8·2	108	49	8·3	114	50	6·2	111	48	7·7	118
1887	45	*6·6*	*80*	32	3·7*	61	33	3·0*	58	35	3·6	67	31	4·0	68	31	3·8	73	32	3·6	64	34	5·8	89	27	3·8*	58	29	3·5	52	29	4·5	81	26	3·3*	43	29	4·2*	58	35	3·8	68	31	3·9	80
1888	56	*9·1*	*110*	44	7·1	116	43	5·1	98	43	5·1	94	41	6·0	102	42	6·2	119	43	5·9	105	49	11·4	136	43	6·4	98	46	7·5	112	50	9·8	132	49	10·1	133	47	9·0	123	50	6·6	118	45	7·5	115
1889	50	*5·2*	*63*	42	5·8	95	39	5·0	96	43	7·3	135	41	8·1	137	41	5·7	110	41	6·4	114	44	7·7	92	40	6·8	105	40	5·9	88	45	7·2	97	46	7·6	100	43	7·0	96	39	5·3	95	42	6·7	103
1890	58	*9·0*	*108*	52	5·6	92	41	4·7	90	41	4·5	83	40	4·7	80	42	6·3	121	43	5·2	93	50	10·1	120	45	6·0	92	51	8·1	121	54	6·3	85	56	8·5	112	52	7·8	107	55	7·7	138	48	6·5	100
Lustrum	54	7·7	*93*	43	6·0	98	40	4·8	92	41	5·1	94	41	6·4	108	40	5·7	110	41	5·6	100	45	8·8	105	41	6·5	100	42	6·5	97	46	7·1	96	46	7·5	99	44	7·3	100	46	5·9	105	43	6·5	100
1891	45	6·3	76	36	4·4	72	35	4·3	83	41	5·5	102	43	6·7	114	38	4·8	92	39	5·1	91	36	5·0	60	39	5·9	91	42	7·2	107	46	6·1	82	45	8·4	111	42	6·5	89	41	6·2	111	41	5·8	89
1892	59	9·1	110	51	6·4	105	51	7·3	140	42	6·1	113	38	5·5	93	31	3·7	71	43	5·8	104	49	10·0	119	50	8·3	128	37	4·6	69	56	9·6	130	46	8·0	105	47	8·1	111	37	4·8	86	45	7·0	108
1893	41	5·2	63	36	5·1	84	28	3·2	62	22	2·3*	43	23	3·1*	53	20	1·7*	33	26	3·1*	55	30	5·4	64	27	4·2	65	21	3·0	45	33	4·9	66	30	4·8	63	28	4·5	62	17	2·1*	38	27	3·8*	58
1894	47	6·1	73	49	6·6	108	54	7·2	138	48	7·1	131	45	5·9	100	44	5·8	112	48	6·5	116	53	8·3	99	55	7·0	108	51	7·5	112	56	8·0	108	53	9·7	128	54	8·1	111	53	6·7	120	51	7·3	112
1895	49	8·9	107	38	4·9	80	32	4·1	79	27	2·9	54	28	4·1	69	26	2·9	56	30	3·8	68	40	4·7*	56	30	4·4	68	26	4·3	64	42	4·3*	58	53	4·6	61	34	4·5	62	31	3·6	64	32	4·2	65
Lustrum	48	7·1	86	42	5·5	90	40	5·2	100	36	4·8	89	35	5·1	86	32	3·8	73	37	4·9	88	42	6·7	80	40	6·0	92	35	5·3	79	47	6·6	89	41	7·1	93	41	6·3	86	36	4·7	84	39	5·6	86
1896	54	9·0	108	42	5·0	82	37	3·2	62	33	3·8	70	36	3·8	64	28	3·0	58	34	3·8	68	37	6·3	75	35	4·4	68	24	2·8*	42	44	6·1	82	34	3·8	50	35	4·7	64	29	2·8	50	35	4·3	66
1897	49	8·7	105	47	8·0	131	39	5·4	104	39	5·3	98	46	6·7	114	35	5·4	104	40	6·2	111	54	*9·9*	*118*	47	8·0	123	44	8·0	119	55	10·6	143	53	10·0	132	51	9·3	127	49	6·3	113	46	7·7	118
1898	57	9·9	119	50	7·0	115	50	6·2	119	46	6·7	124	48	6·6	112	46	6·2	119	48	6·5	116	56	*8·3*	*99*	49	8·8	135	47	8·9	133	64	9·4	127	51	10·3	136	53	9·2	126	50	7·6	136	51	7·9	122
1899	51	8·9	107	52	8·4	138	47	7·1	137	40	6·0	111	42	6·4	108	37	5·3	102	44	6·6	118	51	*11·4*	*136*	48	8·5	131	43	8·1	121	52	10·0	135	46	8·7	115	48	9·3	127	41	6·3	113	46	7·9	122
1900	58	10·0	120	49	6·0	98	39	4·9	94	42	5·0	93	41	5·5	93	37	5·1	98	42	5·3	95	54	*11·2*	*133*	44	6·6	102	45	8·5	127	59	9·4	127	53	9·7	128	51	9·1	125	43	5·0	89	47	7·2	111
Lustrum	54	8·9	107	48	6·9	113	42	5·4	104	40	5·4	100	40	5·8	98	37	5·0	96	42	5·7	102	50	*9·4*	*112*	45	7·3	112	41	7·3	109	55	9·1	123	47	8·5	112	48	8·3	114	42	5·6	100	45	7·0	108
1901	50	8·3	100	45	6·4	105	34	4·1	71	36	4·2	78	35	4·3	73	31	4·1	79	36	4·6	82	45	*9·6*	*114*	40	5·1	78	35	7·1	106	49	8·3	112	41	7·8	103	42	7·6	104	38	6·8	121	39	6·1	94
1902	59	8·2	99	54	6·9	113	47	6·3	121	49	6·7	124	48	6·5	110	56	6·7	129	50	6·6	118	55	*8·4*	*100*	52	6·7	103	49	7·3	109	63	8·1	110	55	7·4	97	55	7·6	104	49	7·3	130	53	7·1	109
1903	50	9·2	111	46	5·2	85	40	5·8	112	33	7·2	133	36	7·5	127	35	8·1	156	38	6·8	121	41	7·5	89	42	5·8	89	37	8·5	127	50	6·1	82	43	7·4	97	43	7·1	97	43	5·9	105	41	7·0	108
1904	59	13·1†	158	50	6·5	107	38	4·5	87	36	*3·7*	*69*	36	4·4	75	40	4·9	94	40	4·8	86	53	10·2	121	48	5·8	89	42	6 5	97	58	7·1	96	49	7·0	92	50	7·3	100	51	5·4	96	45	6·0	92
1905	53	*6·7*	*81*	45	4·6	75	40	4·2	81	43	*6·7*	*124*	42	5·6	95	40	6·7	129	42	5·6	100	38	7·1	85	36	5·9	91	44	6·9	103	44	5·7	77	44	6·4	84	41	6·4	88	43	5·5	98	42	6·0	92
Lustrum	54	9·1	110	48	5·9	97	40	5·0	96	39	*5·7*	*106*	40	5·7	97	39	6·1	117	41	5·7	102	46	*8·6*	*102*	44	5·9	91	41	7·3	109	53	7·1	96	46	7·2	95	46	7·2	99	45	6·2	111	44	6·4	98
25 years average ..	**52**	**8·3**	**—**	**45**	**6·1**	**—**	**41**	**5·2**	**—**	**39**	**5·4**	**—**	**39**	**5·9**	**—**	**37**	**5·2**	**—**	**40**	**5·6**	**—**	**46**	**8·4**	**—**	**42**	**6·5**	**—**	**41**	**6·7**	**—**	**50**	**7·4**	**—**	**46**	**7·6**	**—**	**45**	**7·3**	**—**	**43**	**5·6**	**—**	**43**	**6·5**	**—**
1906	56	8·6	104	49	7·7	126	45	5·3	102	33	*5·3*	*98*	39	5·2	88	31	5·0	96	39	5·7	102	47	8·8	105	44	6·5	100	41	7·7	115	57	7·8	105	51	7·2	95	48	7·6	104	35	4·7	84	44	6·7	103
1907	66	10·4	125	58	8·5	139	55	8·1	156	53	*6·9*	*128*	56	8·0	136	51	7·4	142	55	7·8	139	60	13·0†	155	62	9·7	149	61	10·9	163	65	11·4†	154	66	10·2	134	63	11·0†	151	53	7·3	130	59	9·4	145
1908	61	10·2	112	52	5·8	95	45	5·2	98	40	5·5	102	41	6 9	115	39	5·7	110	43	5·8	104	50	9·0	107	50	8·4	129	45	6·0	90	58	8·6	116	56	7·0	92	52	7·8	107	37	4·3	77	48	6·8	105
1909	55	7·6	92	49	7·1	116	42	5·8	112	40	5·9	109	40	6·4	108	40	6·8	131	42	6·4	114	46	9·4	112	41	6·9	106	39	7·0	104	50	7·1	96	46	7·4	97	44	7·6	104	31	5·0	89	43	7·0	108

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 25 years average in each district is shown in clarendon type.

* Minimum and † Maximum values 1878–1909.

Meteorological Office, 63, Victoria Street, London, S.W.
July, 1909.

W. N. SHAW,
Director.

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 25 YEARS, 1881–1905.

YEARS.	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1–10 combined.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
1878 ..	*49·0*	*+ 1·2*	*49·4*	*+ 0·8*	51·3	+ 1·7	53·4	+ 2·1	53·7	+ 2·5	54·4	+ 1·9	52·4	+ 1·8	*53·2*	*+ 2·3*	53·1	+ 2·3	53·0	+ 1·2	52·2	+ 1·7	53·2	+ 1·4	52·7	+ 1·7	54·6	+ 1·4	53·6	+ 1·8
1879 ..	*45·8*	*- 2·0*	*45·7**	*- 2·9*	47·1*	- 2·5	48·4*	- 2·9	48·4*	- 2·8	49·4*	- 3·1	47·8*	- 2·8	*48·0*	*- 1·9*	48·2*	- 2·6	49·5*	- 2·3	48·0*	- 2·5	49·5	- 2·3	48·6*	- 2·4	50·4*	- 2·8	48·2*	- 2·6*
1880 ..	*48·3*	*+ 0·5*	*48·7*	*+ 0·1*	49·1	- 0·5	50·7	- 0·6	50·3	- 0·9	51·6	- 0·9	50·1	- 0·5	*50·0*	*+ 0·1*	50·1	- 0·7	51·8	0·0	50·0	- 0·5	51·6	- 0·2	50·7	- 0·3	51·9	- 1·3	50·4	- 0·4
1881 ..	*47·3*	*- 0·5*	*48·6*	*0·0*	50·2	+ 0·6	52·2	+ 0·9	52·3	+ 1·1	53·1	+ 0·6	51·3	+ 0·7	*50·3*	*+ 0·4*	51·4	+ 0·6	52·0	+ 0·2	51·4	+ 0·9	52·3	+ 0·5	51·5	+ 0·5	53·1	- 0·1	51·4	+ 0·6
1882 ..	*48·2*	*+ 0·4*	*48·3*	*- 0·3*	50·0	+ 0·4	52·0	+ 0·7	51·6	+ 0·4	53·4	+ 0·9	51·1	+ 0·5	*50·2*	*+ 0·3*	51·4	+ 0·6	51·9	+ 0·1	50·8	+ 0·3	51·7	- 0·1	51·2	+ 0·2	53·6	+ 0·4	51·2	+ 0·4
1883 ..	*48·2*	*+ 0·4*	*49·0*	*+ 0·4*	49·8	+ 0·2	51·7	+ 0·4	51·6	+ 0·4	52·5	0·0	50·9	+ 0·3	*49·3*	*- 0·6*	50·6	- 0·2	51·2	- 0·6	50·1	- 0·4	51·0	- 0·8	50·4	- 0·6	52·3	- 0·9	50·6	- 0·2
1884 ..	*47·8*	*0·0*	*48·3*	*- 0·3*	49·6	0·0	50·8	- 0·5	50·8	- 0·4	52·0	- 0·5	50·3	- 0·3	*49·7*	*- 0·2*	50·2	- 0·6	51·0	- 0·8	50·2	- 0·3	51·3	- 0·6	50·5	- 0·6	52·3	- 0·9	50·4	- 0·4
1885 ..	*46·6*	*- 1·2*	*47·5*	*- 1·1*	48·6	- 1·0	50·1	- 1·2	49·6	- 1·6	51·4	- 1·1	49·4	- 1·2	47·9	- 2·0	48·6	- 2·2	49·5*	- 2·3	48·3	- 2·2	49·1*	- 2·7	48·7	- 2·3	50·8	- 2·4	49·1	- 1·7
Lustrum	*47·6*	*- 0·2*	*48·3*	*- 0·3*	49·6	0·0	51·4	+ 0·1	51·2	0·0	52·5	0·0	50·6	0·0	*49·5*	*- 0·4*	50·4	- 0·4	51·1	- 0·7	50·2	- 0·3	51·1	- 0·7	50·5	- 0·5	52·4	- 0·8	50·6	- 0·2
1886 ..	*46·4*	*- 1·4*	*46·8*	*- 1·8*	47·5	- 2·1	50·1	- 1·2	49·9	- 1·3	51·6	- 0·9	49·2	- 1·4	47·7*	- 2·2	49·0	- 1·8	50·7	- 1·1	48·5	- 2·0	50·3	- 1·5	49·2	- 1·8	51·8	- 1·4	49·2	- 1·6
1887 ..	*48·3*	*+ 0·5*	*49·9*	*+ 1·3*	49·9	+ 0·3	51·0	- 0·3	51·4	+ 0·2	52·0	- 0·5	50·8	- 0·2	50·6	+ 0·7	50·8	0·0	52·1	+ 0·3	51·8	+ 1·3	52·8	+ 1·0	51·6	+ 0·6	52·9	- 0·3	51·2	+ 0·4
1888 ..	*46·1*	*- 1·7*	*47·1*	*- 1·5*	48·0	- 1·6	50·1	- 1·2	49·9	- 1·3	50·7	- 1·8	49·2	- 1·4	49·0	- 0·9	49·5	- 1·3	50·3	- 1·5	49·6	- 0·9	51·3	- 0·5	49·9	- 1·1	51·6	- 1·6	49·5	- 1·3
1889 ..	*49·7*	*+ 1·9*	50·5	+ 1·9	50·9	+ 1·3	52·7	+ 1·4	52·8	+ 1·6	54·3	+ 1·8	52·2	+ 1·6	51·5	+ 1·6	52·2	+ 1·4	52·5	+ 0·7	51·3	+ 0·8	51·9	+ 0·1	51·9	+ 0·9	53·7	+ 0·5	52·1	+ 1·3
1890 ..	*48·0*	*+ 0·2*	48·7	+ 0·1	49·4	- 0·2	51·0	- 0·3	50·6	- 0·6	52·2	- 0·3	50·4	- 0·2	49·8	- 0·1	50·6	- 0·2	51·5	- 0·3	50·5	0·0	51·6	- 0·2	50·8	- 0·2	52·6	- 0·6	50·6	- 0·2
Lustrum	*47·7*	*- 0·1*	48·6	0·0	49·1	- 0·5	51·0	- 0·3	50·9	- 0·3	52·2	- 0·3	50·4	- 0·2	49·7	- 0·2	50·4	- 0·4	51·4	- 0·4	50·3	- 0·2	51·6	- 0·2	50·7	- 0·3	52·5	- 0·7	50·5	- 0·3
1891 ..	47·1	- 0·7	47·8	- 0·8	48·4	- 1·2	50·3	- 1·0	50·2	- 1·0	51·9	- 0·6	49·7	- 0·9	49·6	- 0·3	50·1	- 0·7	51·0	- 0·8	50·1	- 0·4	51·2	- 0·6	50·4	- 0·6	52·7	- 0·5	50·1	- 0·7
1892 ..	46·4	- 1·4	47·7	- 0·9	49·2	- 0·4	51·2	- 0·1	51·0	- 0·2	52·1	- 0·4	50·2	- 0·4	49·1	- 0·8	50·4	- 0·4	51·3	- 0·5	50·2	- 0·3	51·7	- 0·1	50·5	- 0·5	53·3	+ 0·1	50·3	- 0·5
1893 ..	50·6†	+ 2·8	51·4†	+ 2·8	51·6†	+ 2·0	53·8†	+ 2·5	54·7†	+ 3·5	55·9†	+ 3·4	53·5†	+ 2·9	53·1†	+ 3·2	54·5†	+ 3·7	56·0†	+ 4·2	54·4†	+ 3·9	55·6†	+ 3·8	54·7†	+ 3·7	57·3†	+ 4·1	54·1†	+ 3·3
1894 ..	47·9	+ 0·1	47·9	- 0·7	48·9	- 0·7	51·1	- 0·2	50·8	- 0·4	52·8	+ 0·3	50·3	- 0·3	49·6	- 0·6	50·8	+ 0·2	51·6	+ 0·2	50·1	- 0·4	51·7	- 0·1	50·8	- 0·2	53·5	+ 0·3	50·6	- 0·2
1895 ..	48·8	+ 1·0	49·7	+ 1·1	50·4	+ 0·8	51·9	+ 0·6	52·4	+ 1·2	53·1	+ 0·6	51·5	+ 0·9	51·1	+ 1·2	51·8	+ 1·0	52·7	+ 0·9	51·6	+ 1·1	52·6	+ 0·8	52·0	+ 1·0	53·7	+ 0·5	51·7	+ 0·9
Lustrum	48·2	+ 0·4	48·9	+ 0·3	49·7	+ 0·1	51·5	+ 0·2	51·8	+ 0·6	53·2	+ 0·7	51·0	+ 0·4	50·5	+ 0·6	51·5	+ 0·7	52·5	+ 0·7	51·3	+ 0·8	52·6	+ 0·9	51·7	+ 0·7	54·0	+ 0·8	51·4	+ 0·6
1896 ..	49·4	+ 1·6	51·2	+ 2·6	51·4	+ 1·8	52·2	+ 0·9	52·8	+ 1·6	53·8	+ 1·3	52·3	+ 1·7	52·0	+ 2·1	53·1	+ 2·3	53·9	+ 2·1	52·7	+ 2·2	53·9	+ 2·1	53·1	+ 2·1	55·1	+ 1·9	52·7	+ 1·9
1897 ..	47·0	- 0·8	47·8	- 0·8	49·2	- 0·4	51·7	+ 0·4	51·4	+ 0·2	53·3	+ 0·8	50·7	+ 0·1	49·5	- 0·4	50·8	0·0	52·6	+ 0·8	49·6	- 0·9	52·0	+ 0·2	50·9	- 0·1	54·1	+ 0·9	50·8	0·0
1898 ..	48·0	+ 0·2	48·7	+ 0·1	49·5	- 0·1	51·0	- 0·3	50·7	- 0·5	52·2	- 0·3	50·4	- 0·2	50·3	+ 0·4	50·9	+ 0·1	51·7	- 0·1	50·6	+ 0·1	51·9	+ 0·1	51·1	+ 0·1	53·4	+ 0·2	50·7	- 0·1
1899 ..	47·2	- 0·6	48·1	- 0·5	49·5	- 0·1	51·3	0·0	51·2	0·0	52·9	+ 0·4	50·6	0·0	49·7	- 0·2	51·1	+ 0·3	52·4	+ 0·6	50·5	0·0	52·4	+ 0·6	51·2	+ 0·2	54·3	+ 1·1	50·9	+ 0·1
1900 ..	48·2	+ 0·4	48·7	+ 0·1	50·0	+ 0·4	51·5	+ 0·2	51·1	- 0·1	52·1	- 0·4	50·7	+ 0·1	50·5	+ 0·6	50·9	+ 0·1	51·4	- 0·4	51·0	+ 0·5	52·2	+ 0·4	51·2	+ 0·2	51·3	- 1·9	51·0	+ 0·2
Lustrum	48·0	+ 0·2	48·9	+ 0·3	49·9	+ 0·3	51·5	+ 0·2	51·4	+ 0·2	52·9	+ 0·4	50·9	+ 0·3	50·4	+ 0·5	51·4	+ 0·6	52·4	+ 0·6	50·9	+ 0·4	52·5	+ 0·7	51·5	+ 0·5	53·6	+ 0·4	51·2	+ 0·4
1901 ..	48·4	+ 0·6	48·8	+ 0·2	50·3	+ 0·7	51·4	+ 0·1	51·5	+ 0·3	52·4	- 0·1	50·9	+ 0·3	50·1	- 0·2	51·4	+ 0·6	52·4	+ 0·6	50·1	- 0·4	51·6	- 0·2	51·1	+ 0·1	53·8	+ 0·6	51·0	+ 0·2
1902 ..	45·7*	- 2·1	46·1	- 2·5	47·7	- 1·9	49·4	- 1·9	48·8	- 2·4	50·0	- 2·5	48·4	- 2·2	48·2	- 1·7	48·9	- 1·9	49·8	- 2·0	48·4	- 2·1	49·9	- 1·9	49·0	- 2·0	51·9	- 1·3	48·7	- 2·1
1903 ..	46·9	- 0·9	47·9	- 0·7	48·7	- 0·9	50·6	- 0·7	50·0	- 1·2	51·5	- 1·0	49·7	- 0·9	49·4	- 0·5	50·3	- 0·5	51·4	- 0·4	49·9	- 0·6	51·5	- 0·3	50·5	- 0·5	52·9	- 0·3	50·1	- 0·7
1904 ..	48·1	+ 0·3	48·9	+ 0·3	51·1	+ 1·5	52·4	+ 1·1	51·3	+ 0·1	53·7	+ 0·2	51·3	+ 0·7	50·2	+ 0·3	51·1	+ 0·3	51·9	+ 0·1	50·2	- 0·3	51·8	0·0	51·0	0·0	53·6	+ 0·4	51·1	+ 0·3
1905 ..	47·7	*- 0·1*	48·5	- 0·1	50·1	+ 0·5	51·9	+ 0·6	51·1	- 0·1	52·5	0·0	50·8	+ 0·2	50·3	+ 0·4	50·9	+ 0·1	51·9	+ 0·1	50·8	+ 0·3	52·8	+ 1·0	51·3	+ 0·3	53·5	+ 0·3	51·1	+ 0·3
Lustrum	*47·4*	*- 0·4*	48·0	- 0·6	49·6	0·0	51·1	- 0·2	50·5	- 0·7	51·8	- 0·7	50·2	- 0·4	49·6	- 0·3	50·5	- 0·3	51·5	- 0·3	49·9	- 0·6	51·5	- 0·3	50·6	+ 0·4	53·1	- 0·1	50·4	- 0·4
25 yrs. Av.	**47·8**	—	**48·6**	—	**49·6**	—	**51·3**	—	**51·2**	—	**52·5**	—	**50·6**	—	**49·9**	—	**50·8**	—	**51·8**	—	**50·5**	—	**51·8**	—	**51·0**	—	**53·2**	—	**50·8**	—
1906 ..	46·4	- 1·4	48·1	- 0·5	50·0	+ 0·4	50·9	- 0·4	50·6	- 0·6	51·2	- 1·3	50·2	- 0·4	49·7	- 0·2	50·2	- 0·6	50·7	- 1·1	49·1	- 1·4	51·0	- 0·8	50·1	- 0·9	52·5	- 0·7	50·1	- 0·7
1907 ..	46·3	- 1·5	46·7	- 1·9	49·3	- 0·3	51·1	- 0·2	49·8	- 1·4	51·1	- 1·4	50·2	- 0·4	48·4	- 1·5	49·1	- 1·7	49·8	- 2·0	48·3	- 2·2	49·9	- 1·9	49·1	- 1·9	52·0	- 1·2	49·7	- 1·1
1908 ..	46·3	- 1·5	47·5	- 1·1	49·6	0·0	51·1	- 0·2	50·6	- 0·6	51·6	- 0·9	50·1	- 0·5	49·1	- 0·8	49·8	- 1·0	50·4	- 1·0	49·1	- 1·4	50·9	- 0·9	49·9	- 1·1	52·7	- 0·5	50·0	- 0·8
1909 ..	47·6	- 0·2	48·0	- 0·6	50·0	+ 0·4	51·2	- 0·1	50·9	- 0·3	51·7	- 0·8	50·4	- 0·2	49·9	0·0	50·5	- 0·3	51·5	- 0·3	50·4	- 0·1	52·0	+ 0·2	50·9	- 0·1	53·9	+ 0·7	50·7	- 0·1

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V] 1906.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, WITH PERCENTAGES OF AVERAGE FOR 25 YEARS, 1881–1905.

YEARS.	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts		11. English Channel.		Means for Districts 1–10 combined.	
	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.
		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%
1881	*·47*	*102*	*·53*	*104*	*·61*	*113*	·64	110	·55	106	*·62*	*107*	·59	107	·59	109	·58	105	*·61*	*105*	·52	104	·55	100	·57	106	·69	100	·58	107
1882	*·51*	*111*	*·54*	*106*	*·64*	*119*	·61	105	·56	108	·63	109	·56	102	·61	113	·59	107	*·60*	*103*	·59	118	·63	115	·60	111	·69	100	·58	107
1883	*·43*	*94*	*·50*	*98*	*·52*	*96*	·60	103	·50	96	·58	100	·54	98	·52	96	·55	100	*·55*	*95*	·51	102	·58	105	·54	100	·72	104	·54	100
1884	*·40*	*87*	*·44*	*86*	*·56*	*104*	·58	100	·48	92	·48	83*	·51	93	·47	87	·51	93	*·55*	*95*	·41	82	·49	89	·49	91	·70	101	·50	93
1885	*·44*	*96*	*·49*	*96*	*·46*	*85*	·58	100	·53	102	·58	100	·53	96	·50	93	·49	89	*·53*	*91*	·48	96	·54	98	·51	94	·68	99	·52	96
Lustrum	*·45*	*98*	*·50*	*98*	*·56*	*104*	·60	103	·52	100	·56	97	·55	100	·54	100	·54	98	*·57*	*98*	·50	100	·56	102	·54	100	·70	101	·54	100
1886	*·46*	*100*	*·50*	*98*	*·42**	*78*	·52	90	·43	83	·55	95	·48	87	·45	83	·43	78	*·52*	*90*	·42	84	·45*	82	·45	83	·63	91	·47	87
1887	*·34**	*74*	·52	102	*·54*	*100*	·61	105	·58	112	·63	109	·58	105	·62	115	·63	115	*·69*	*119*	·60†	120	·71†	129	·65†	120	·74	107	·61	113
1888	*·46*	*100*	·56	110	*·49*	*91*	·49	84	·44	85	·47*	81	·49	89	·54	100	·47	85	*·50*	*86*	·49	98	·51	93	·50	93	·63	91	·50	93
1889	*·36*	*78*	·51	100	*·51*	*94*	·49	84	·44	85	·48	83	·49	89	·53	98	·52	95	*·54*	*93*	·44	88	·52	95	·51	94	·58	84	·50	93
1890	*·44*	*96*	·48	94	*·48*	*89*	·56	97	·49	94	·53	91	·51	93	·53	98	·47	85	*·50*	*86*	·50	100	·50	91	·50	93	·62	90	·50	93
Lustrum	*·41*	*89*	·51	100	*·49*	*91*	·53	91	·48	92	·53	91	·51	93	·53	98	·50	91	*·55*	*95*	·49	98	·54	98	·52	96	·64	93	·52	96
1891	*·56†*	*122*	*·53*	*104*	*·51*	*94*	*·47**	81	·46	88	·56	97	·51	93	·54	100	·48	87	*·53*	*91*	·50	100	·53	96	·52	96	·69	100	·52	96
1892	*·50*	*109*	*·59*	*116*	*·58*	*107*	·64	110	·61	117	·69	119	·62	113	·57	106	·59	107	*·61*	*105*	·54	108	·58	105	·58	107	·79	114	·60	111
1893	*·46*	*100*	*·54*	*106*	*·65*	*120*	·71	122	*·66†*	127	*·74†*	128	·66	120	·61	113	·62	113	*·76†*	*131*	·50	100	·58	105	·61	113	*·93†*	135	·64	119
1894	*·53*	*115*	*·48*	*94*	*·49*	*91*	·49	84	·47	90	·55	95	·50	91	·49	91	*·49*	*89*	*·54*	*93*	·45	90	·49	89	·49	91	·61	88	·49	91
1895	*·49*	*107*	*·60*	*118*	*·61*	*113*	·62	107	·61	117	·64	110	·62	113	·58	107	*·59*	*107*	*·69*	*119*	·59	118	·60	109	·61	113	·75	109	·62	115
Lustrum	*·51*	*111*	*·55*	*108*	*·57*	*106*	·59	102	·56	108	·58	110	·58	105	·56	104	*·55*	*100*	*·63*	*109*	·52	104	·56	102	·56	104	·75	109	·57	106
1896	*·46*	*100*	*·55*	*108*	*·58*	*107*	·61	105	·58	112	·63	109	·59	107	·61	113	*·63*	*115*	*·68*	*117*	·52	104	·60	109	·61	113	·77	112	·60	111
1897	*·55*	*120*	*·51*	*100*	*·58*	*107*	·58	100	·55	106	·61	105	·57	104	·53	98	·59	107	*·59*	*102*	·46	92	·48	87	·53	98	·64	93	·55	102
1898	·45	98	*·47*	*92*	*·43*	*80*	·49	84	·48	92	·49	84	·47	85	·50	93	·52	95	*·57*	*98*	·48	96	·51	93	·52	96	·65	94	·49	91
1899	·49	107	*·53*	*104*	*·52*	*96*	·59	102	·54	104	·63	109	·56	102	·52	96	·57	104	*·60*	*103*	·52	104	·59	107	·56	104	·70	101	·56	104
1900	·41	89	*·44*	*86*	*·46*	*85*	·57	98	·48	92	*·59*	*102*	·51	93	·51	94	·55	100	*·55*	*95*	·47	94	·50	91	·52	96	·67	97	·52	96
Lustrum	*·47*	*102*	*·50*	*98*	*·51*	*94*	·57	98	·53	102	·59	102	·54	98	·53	98	·57	104	*·60*	*103*	·49	98	·54	98	·55	102	·69	100	·51	100
1901	·53	115	*·62†*	122	*·71†*	*131*	*·73†*	126	·64	123	*·70*	*121*	*·68†*	124	*·65†*	120	*·70†*	127	*·67*	*116*	·59	118	·62	113	*·65†*	120	·76	110	*·67†*	124
1902	·46	100	·46	90	*·56*	*104*	·55	95	·49	94	·53	91	·52	95	·49	91	·57	104	*·51*	*88*	·50	100	·52	95	·52	96	·61	88	·52	96
1903	·42	91	·45	88	*·54*	*100*	·55	95	·48	92	·60	103	·52	95	·52	96	·57	104	*·55*	*95*	·42	84	·50	91	·51	94	·66	96	·51	94
1904	·48	104	·49	96	*·51*	*94*	·55	95	·49	94	·55	95	·52	95	·51	94	·53	96	·55	95	·48	96	·52	95	·52	96	·63	91	·52	96
1905	·50	109	·52	102	·50	93	·56	97	·48	92	·55	95	·52	95	·59	109	·56	102	·53	91	·60†	120	·54	98	·56	104	·62	90	·54	100
Lustrum	·48	104	·51	100	*·56*	*104*	·59	102	·52	100	·59	102	·55	100	·55	102	·59	107	*·56*	*97*	·52	104	·54	98	·55	102	·66	96	·55	102
25 years average ..	**·46**	—	**·51**	—	**·54**	—	**·58**	—	**·52**	—	**·58**	—	**·55**	—	**·54**	—	**·55**	—	**·58**	—	**·50**	—	**·55**	—	**·54**	—	**·69**	—	**·54**	—
1906	·43	93	·51	100	·54	100	·64	110	·53	102	·66	114	·57	104	·51	94	·52	95	·59	102	·48	96	·55*	100	·53	98	·68	99	·55	102
1907	·42	91	*·41**	80	·45	83	·49	84	*·42**	81	·51	88	*·46**	81	*·41**	76	*·42**	76	*·46**	79	*·40**	80	*·45**	82	*·43**	80	*·53**	77	*·44**	82
1908	·44	96	·50	98	·50	93	·58	100	·51	98	·61	105	·54	98	·54	100	·54	98	·57	98	·48	96	·49	89	·52	98	·62	90	·53	98
1909	·46	100	·53	104	·55	102	·66	114	·59	113	·70	121	·61	111	·61	113	·64	116	·67	116	·54	108	·58	105	·61	113	·80	116	·61	113

Thirty-second Year.
VOL. XXVI. [*New Series.*] } APPENDIX I. THIRD QUARTER, 1909. [*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-TWO YEARS, 1878–1909.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 25 YEARS, 1881–1905.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			MEANS FOR EASTERN DISTRICTS.			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			MEANS FOR WESTERN DISTRICTS.			11. ENGLISH CHANNEL.			MEANS FOR DISTRICTS 1-10 COMBINED.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o		Ins.	°/o
1878	51	*10·5*	*87*	47	*9·5*	*112*	46	8·4	120	48	6·5	98	43	9·1	130	40	7·5	110	44	8·2	114	47	*11·0*	*90*	48	10·8	114	44	9·2	99	55	8·1	78	51	10·5	105	48	9·9	96	52	8·5	113	46	9·1	103
1879	59	*12·8*	*106*	55	*11·6*	*137*	53	9·0	129	61	11·4†	173	54	10·8	154	56	11·2†	165	55	10·8†	150	64	*16·5*	*135*	62	13·9†	146	61	12·9	139	68	15·5†	149	64	12·4	124	64	14·2†	138	63	10·3	137	60	12·5†	142
1880	40	*9·8*	*81*	46	*9·1*	*107*	45	10·5†	150	46	*9·4*	*142*	44	11·2†	160	43	9·4	138	46	9·9	138	46	*9·9*	*81*	46	10·0	105	47	7·7	83	54	9·8	94	49	10·8	108	48	9·6	93	55	8·0	107	47	9·8	111
1881	49	8·5*	70	50	*10·8*	*127*	51	10·3	147	51	*8·0*	*121*	47	8·3	119	47	8·2	121	49	9·1	126	55	*11·3*	*93*	50	11·0	116	49	9·4	101	63	8·6	83	55	10·3	103	54	10·1	98	51	7·8	104	52	9·6	109
1882	60	*10·7*	*88*	57	*9·5*	*112*	56	6·9	99	48	*6·5*	*98*	55	8·1	116	49	7·2	106	53	7·6	106	57	*12·9*	*106*	55	11·5	121	57	13·2†	142	65	11·5	111	59	11·1	111	59	12·0	117	59	8·1	108	56	9·8	111
1883	59	*11·1*	*92*	57	*11·8†*	*139*	51	8·3	119	52	*7·6*	*115*	50	8·9	127	49	6·7	99	52	8·7	121	54	*12·8*	*105*	51	9·8	103	58	10·1	109	61	11·4	110	57	12·8	128	56	11·4	111	62	9·5	127	54	10·1	115
1884	53	*10·3*	*86*	48	*7·4*	*87*	35	5·3	76	38	*7·0*	*106*	40	6·2	89	44	5·9	87	41	6·4	89	55	*13·0*	*107*	48	9·0	95	52	8·6	92	59	10·2	98	48	7·1	71	52	9·6	93	52	7·1	95	47	8·0	91
1885	59	*10·6*	*88*	45	*7·1*	*84*	36	5·7	81	36	*5·8*	*88*	35	5·9	84	33	5·1	75	37	5·9	82	46	11·6	95	43	7·8	82	42	8·8	95	51	9·9	95	46	9·9	99	46	9·6	93	45	5·7	76	42	7·8	89
Lustrum	56	*10·2*	*84*	51	*9·3*	*109*	46	7·3	104	45	*7·0*	*106*	45	7·5	107	44	6·6	97	46	7·5	104	53	*12·3*	*101*	49	9·8	103	52	10·0	108	60	10·3	99	53	10·2	102	53	10·5	102	54	7·6	101	50	9·0	102
1886	59	*11·4*	*94*	43	5·9*	69	41	6·8	97	38	*6·1*	*92*	39	6·4	91	35	5·8	85	39	6·2	86	48	11·4	93	42	10·3	108	40	9·3	100	54	9·3	89	53	10·9	109	47	10·2	93	48	7·2	96	43	8·2	93
1887	63	*11·1*	*92*	53	7·6	89	44	6·1	87	42	*5·0*	*76*	35	5·2	74	35	5·8	85	42	5·9	82	49	10·8	89	43	7·1	75	37	7·3	78	55	10·5	101	46	7·9	79	46	8·7	84	40	6·2	83	44	7·3	83
1888	55	*10·0*	*83*	52	7·1	84	49	9·2	131	53	*7·9*	*120*	48	7·9	113	46	7·9	116	50	8·0	111	53	9·7	80	50	9·6	101	53	9·8	105	54	9·5	91	44	8·4	84	51	9·4	91	51	7·8	104	51	8·7	99
1889	58	*11·9*	*98*	51	8·8	104	48	7·7	110	48	*8·5*	*129*	44	7·8	111	41	6·6	97	46	7·9	110	51	10·8	89	48	10·2	107	50	9·1	98	60	11·9	114	50	9·8	98	52	10·4	101	47	6·0	80	49	9·2	105
1890	65	*13·1*	*108*	54	8·4	99	48	8·3	119	44	*6·8*	*103*	47	6·6	94	44	8·6	126	47	7·7	107	54	12·0	98	53	9·2	97	52	9·8	105	65	10·2	98	55	8·4	84	56	9·9	96	44	8·1	108	52	8·8	100
Lustrum	60	*11·5*	*95*	51	7·6	89	46	7·6	109	45	*6·9*	*105*	43	6·8	97	40	6·9	101	45	7·2	100	51	10·9	89	47	9·3	98	46	9·1	98	58	10·3	99	50	9·1	91	50	9·7	94	46	7·1	95	48	8·5	97
1891	71	15·9†	131	59	11·7	138	51	8·8	126	51	*8·0*	*121*	52	7·9	113	52	9·0	132	53	9·1	126	62	14·9	122	55	13·8	145	56	12·9	139	66	11·3	109	56	11·0	110	59	12·8	124	51	9·7	129	56	11·0	125
1892	66	15·0	124	51	8·3	98	44	6·6	94	40	*7·7*	*117*	46	7·5	107	44	8·4	124	45	7·7	107	53	15·5	127	53	12·1	127	51	10·0	108	62	12·0	115	53	13·2	132	54	12·6	122	43	7·2	96	50	10·2	116
1893	70	15·7	136	55	8·1	95	49	6·8	97	45	*5·5*	*83*	43	6·0	86	43	7·0	103	47	6·7	93	53	11·3	93	54	10·4	110	47	9·9	106	60	11·2	108	52	8·7	87	53	10·3	100	51	9·8	131	50	8·5	97
1894	53	10·5	87	48	8·9	105	49	6·2	89	54	*7·2*	*109*	44	6·8	97	51	9·2	135	49	7·7	107	40	7·3*	60	44	8·0	84	52	10·7	115	54	6·8*	65	45	8·8	88	47	8·3	81	54	11·9†	159	48	8·0	91
1895	65	14·0	116	51	9·6	113	44	7·9	113	34	*7·8*	*118*	40	6·6	94	37	6·8	100	41	7·7	107	54	12·7	104	46	9·3	98	40	8·3	89	57	10·9	105	49	10·1	101	49	10·3	100	39	5·7	76	45	9·0	102
Lustrum	65	14·2	117	53	9·3	109	47	7·3	104	45	*7·2*	*109*	45	7·0	100	45	8·1	119	47	7·8	108	52	12·3	101	50	10·7	113	49	10·4	112	60	10·4	100	51	10·4	104	52	10·8	105	48	8·9	119	50	9·3	106
1896	59	13·5	112	59	9·3	109	52	6·9	99	49	*7·7*	*117*	51	8·3	119	46	9·1	134	51	8·3	115	60	13·9	114	55	11·3	119	49	10·0	108	64	13·5	130	56	12·7	127	57	12·3	119	50	9·6	128	54	10·3	117
1897	58	12·2	101	53	7·7	91	42	7·4	106	41	*6·5*	*98*	42	7·4	106	41	6·6	97	44	7·1	99	55	*12·2*	*100*	47	10·0	105	53	11·7	126	59	10·5	101	56	11·0	110	54	11·1	108	53	9·1	121	49	9·1	103
1898	57	13·1	108	43	6·5	77	30	3·8*	54	21	2·7*	41	25	4·2	60	19	2·8*	41	28	4·0*	56	49	*11·4*	*93*	40	7·2	76	29	5·4*	58	51	8·9	86	42	9·0	90	42	8·4	82	34	3·7	49	35	6·2	70
1899	55	12·2	101	47	7·6	89	38	5·6	80	34	*5·0*	*76*	33	5·1	73	28	5·4	79	36	5·7	79	54	*9·6*	*79*	47	8·9	94	38	6·7	72	56	8·3	80	44	8·3	83	48	8·4	82	33	4·8	64	42	7·1	81
1900	60	12·9	107	50	9·6	113	35	7·3	104	32	*5·3*	*80*	31	6·1	87	29	4·1	60	35	6·5	90	57	*14·0*	*115*	42	9·5	100	43	6·6	71	52	8·8	85	41	9·7	97	47	9·7	94	40	4·3	57	41	8·1	92
Lustrum	58	12·8	106	50	8·1	95	39	6·2	89	35	*5·4*	*82*	36	6·2	89	33	5·6	82	39	6·3	88	55	*12·2*	*100*	46	9·4	99	42	8·1	87	56	10·0	96	48	10·1	101	49	10·0	97	42	6·3	84	44	8·2	93
1901	52	9·9	82	46	6·9	81	33	5·4	77	26	*4·1*	*62*	30	7·6	109	29	7·2	106	33	6·2	86	51	*11·2*	*92*	41	6·4*	67	40	8·6	92	56	9·4	90	47	9·6	96	47	9·0	87	38	6·6	88	40	7·6	86
1902	65	10·1	83	53	6·9	81	46	5·4	77	40	*6·5*	*98*	45	6·4	91	43	6·8	106	45	6·4	89	52	*12·0*	*98*	52	6·4*	67	46	7·4	80	62	9·6	92	46	7·8	78	52	8·6	83	47	5·8	77	49	7·5	85
1903	67	15·3	126	63	11·3	133	55	10·1	143	49	10·6	161	51	10·2	146	52	9·9	146	54	10·4	144	59	17·2†	141	58	13·3	140	55	12·4	133	70	14·2	137	63	15·3†	133	61	14·1	137	58	10·8	144	58	12·3	140
1904	58	11·5	95	48	7·3	86	35	6·1	87	33	5·6	85	34	7·4	106	35	5·7	84	37	6·4	89	43	12·4	102	44	7·8	82	44	9·5	102	60	11·7	113	50	11·1	111	48	10·5	102	49	7·5	100	43	8·5	97
1905	72	*13·1*	*108*	56	7·5	88	40	5·8	83	32	4·9	74	40	6·1	87	37	5·6	82	41	6·0	83	51	12·2	100	50	8·3	87	44	7·5	81	59	9·1	88	53	9·1	91	51	9·2	89	53	6·5	87	46	7·6	86
Lustrum	63	12·0	99	53	8·0	94	42	6·6	94	36	6·3	95	40	7·5	107	39	7·0	103	42	7·1	99	51	*13·0*	*107*	49	8·4	88	46	9·1	98	61	10·8	104	52	10·2	102	52	10·3	100	49	7·4	99	47	8·7	99
25 years average ..	**59**	**12·1**	—	**51**	**8·5**	—	**44**	**7·0**	—	**41**	**6·6**	—	**42**	**7·0**	—	**40**	**6·8**	—	**44**	**7·2**	—	**53**	**12·2**	—	**49**	**9·5**	—	**47**	**9·3**	—	**59**	**10·4**	—	**51**	**10·0**	—	**52**	**10·3**	—	**48**	**7·5**	—	**48**	**8·8**	—
1906	56	11·5	95	46	7·4	87	33	4·4	63	24	3·2	48	30	3·4*	49	28	2·9	43	32	4·3	59	49	10·4	85	43	7·1	75	38	5·6	60	54	7·5	72	49	6·6*	66	47	7·4*	72	30	3·0*	40	39	5·9*	67
1907	64	10·4	86	53	6·9	81	38	3·8*	54	33	3·6	55	40	6·0	86	36	4·0	59	40	4·9	68	48	9·6	79	47	7·1	75	42	7·3	78	55	8·1	78	53	7·8	78	49	8·0	78	34	4·6	61	45	6·5	74
1908	63	11·4	94	49	8·7	102	48	6·2	89	46	7·0	106	44	7·5	107	40	7·6	112	45	7·4	103	52	13·6	111	52	11·4	120	46	10·1	109	55	11·7	113	55	11·7	117	52	11·7	114	43	6·8	91	48	9·6	109
1909	62	9·5	79	52	7·6	89	51	8·3	119	51	6·9	105	51	8·2	117	47	8·6	126	51	7·9	110	50	10·7	88	52	10·2	107	48	8·6	92	58	8·0	77	49	5·8	58	52	8·7	84	40	4·5	60	51	8·3	94

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 25 years average in each district is shown in clarendon type.

* Minimum and † Maximum values 1878-1909.

Meteorological Office, 63, Victoria Street, London, S.W.
October 28th, 1909.

W. N. SHAW,
Director.

(14528—24.) Wt. 103—466. 450. 11/09. D & S.

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 25 YEARS, 1881–1905.

YEARS.	0. Scotland, N.		Eastern Districts. 1. Scotland, E		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1–10 combined.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
1878 ..	*55·8*	*+ 2·1*	*56·7*	*+ 1·7*	58·7	+ 1·6	59·9	+ 1·0	59·7	+ 1·7	61·2	+ 1·2	59·2	+ 1·4	58·6†	+ 2·9	59·1	+ 1·7	60·9	+ 2·4	58·4†	+ 2·3	60·3†	+ 2·7	59·5†	+ 2·4	61·8	+ 1·1	59·4	+ 1·9
1879 ..	*53·1*	*- 0·6*	*53·5*	*- 1·5*	55·8	- 1·3	57·6	- 1·3	57·3	- 0·7	58·3	- 1·7	56·5	- 1·3	*54·8*	*- 0·3*	55·8	- 1·6	57·1	- 1·4	54·4*	- 1·7	57·1	- 0·5	55·8	- 1·3	58·2*	- 2·5	56·2	- 1·3
1880 ..	56·4†	+ 2·7	*56·7*	*+ 1·7*	59·1	+ 2·0	60·6	+ 1·7	59·6	+ 1·6	61·7	+ 1·7	59·5	+ 1·7	*58·1*	*+ 2·4*	59·4	+ 2·0	60·9	+ 2·4	58·4†	+ 2·3	59·7	+ 2·1	59·3	+ 2·2	61·2	+ 0·5	59·4	+ 1·9
1881 ..	*53·6*	*- 1·1*	*53·6*	*- 1·4*	56·4	- 0·7	58·1	- 0·8	57·2	- 0·8	59·0	- 1·0	56·9	- 0·9	*54·5*	*- 1·2*	56·0	- 1·4	57·1	- 1·4	55·4	- 0·7	56·0	- 1·6	55·8	- 1·3	59·5	- 1·2	56·4	- 1·1
1882 ..	*54·8*	*+ 1·1*	*55·5*	*+ 0·5*	57·3	+ 0·2	57·7	- 1·2	56·6	- 1·4	58·4	- 1·6	57·1	- 0·7	*55·6*	*- 0·1*	56·4	- 1·0	57·0	- 1·5	55·5	- 0·6	55·8*	- 1·8	56·1	- 1·0	58·6	- 2·1	56·6	- 0·9
1883 ..	*53·6*	*- 0·1*	*54·6*	*- 0·4*	56·5	- 0·6	58·0	- 0·9	57·2	- 0·8	59·1	- 0·8	57·1	- 0·7	*55·4*	*- 0·3*	56·8	- 0·6	57·1	- 1·4	55·4	- 0·7	56·5	- 1·1	56·2	- 0·9	58·8	- 1·9	56·7	- 0·8
1884 ..	*55·1*	*+ 1·4*	*56·3*	*+ 1·3*	58·7	+ 1·6	61·3	+ 2·4	60·2	+ 2·2	62·0	+ 2·0	59·7	+ 1·9	*57·7*	*+ 2·0*	59·2	+ 1·8	60·1	+ 1·6	57·5	+ 1·4	58·6	+ 1·0	58·6	+ 1·5	61·4	+ 0·7	59·2	+ 1·7
1885 ..	*53·3*	*- 1·4*	*53·8*	*- 1·2*	55·8	- 1·3	57·5	- 1·4	57·2	- 0·8	59·2	- 0·8	56·7	- 1·1	*54·4*	*- 1·3*	55·8	- 1·6	57·3	- 1·2	55·3	- 0·8	56·9	- 0·7	55·9	- 1·2	59·3	- 1·4	56·3	- 1·2
Lustrum	*53·7*	*0·0*	*54·8*	*- 0·2*	56·9	- 0·2	58·5	- 0·4	57·7	- 0·3	59·5	- 0·5	57·5	- 0·3	*55·5*	*- 0·2*	56·8	- 0·6	57·7	- 0·8	55·8	- 0·3	56·8	- 0·8	56·5	- 0·6	59·5	- 1·2	57·0	- 0·5
1886 ..	*53·1*	*- 0·6*	*54·9*	*- 0·1*	57·7	+ 0·6	59·7	+ 0·8	59·2	+ 1·2	60·9	+ 0·9	58·5	+ 0·7	*55·5*	*- 0·2*	57·3	- 0·1	59·0	+ 0·5	56·1	0·0	57·8	+ 0·2	57·1	0·0	60·7	0·0	57·8	+ 0·3
1887 ..	*53·9*	*- 0·8*	55·3	+ 0·2	56·7	- 0·4	58·6	- 0·3	57·7	- 0·3	59·3	- 0·7	57·5	- 0·3	55·1	- 0·6	57·1	- 0·3	58·3	- 0·2	56·1	0·0	58·0	+ 0·4	56·9	- 0·2	60·9	+ 0·2	57·2	- 0·3
1888 ..	51·6*	- 2·1	52·8*	- 2·4	54·0*	- 3·1	56·6*	- 2·3	55·3*	- 2·7	57·6*	- 2·4	55·2	- 2·6	53·8*	- 1·9	55·0*	- 2·4	56·3*	- 2·2	54·6	- 1·5	55·8*	- 1·8	55·1*	- 2·0	58·6	- 2·1	55·2*	- 2·3
1889 ..	*53·1*	*- 0·6*	54·3	- 0·7	56·0	- 1·1	57·6	- 1·3	57·0	- 1·0	59·0	- 1·0	56·8	- 1·0	55·1	- 0·6	56·5	- 0·9	57·6	- 0·9	55·7	- 0·4	57·1	- 0·5	56·4	- 0·7	60·0	- 0·7	56·6	- 0·9
1890 ..	*53·8*	*+ 0·1*	55·3	+ 0·3	57·3	+ 0·2	58·3	- 0·6	57·6	- 0·4	59·4	- 0·6	57·6	- 0·2	55·7	0·0	57·1	- 0·3	57·7	+ 0·8	56·1	0·0	57·2	- 0·4	56·8	- 0·3	58·9	- 1·8	57·2	- 0·3
Lustrum	*53·9*	*- 0·8*	54·5	- 0·5	56·3	- 0·8	58·2	- 0·7	57·4	- 0·6	59·2	- 0·8	57·1	- 0·7	55·0	- 0·7	56·6	- 0·8	57·8	- 0·7	55·7	- 0·4	57·2	- 0·4	56·5	- 0·6	59·8	- 0·9	56·8	- 0·7
1891 ..	53·7	0·0	55·3	+ 0·3	56·6	- 0·5	57·9	- 1·0	57·0	- 1·0	58·8	- 1·2	57·1	- 0·7	55·8	+ 0·1	57·0	- 0·4	57·0	- 1·5	56·2	+ 0·1	56·9	- 0·7	56·6	- 0·5	59·5	- 1·2	56·9	- 0·6
1892 ..	51·7	- 2·0	53·0	- 2·0	55·0	- 2·1	57·1	- 1·8	56·0	- 2·0	58·8	- 1·2	56·0	- 1·8	54·0	- 1·7	55·8	- 1·6	57·2	- 1·3	54·7	- 1·4	56·6	- 1·0	55·7	- 1·4	60·3	- 0·4	55·9	- 1·6
1893 ..	54·7	+ 1·0	55·9	+ 0·9	58·0	+ 0·9	60·0	+ 1·1	59·7	+ 1·7	61·3	+ 1·3	59·0*	+ 1·2	56·8	+ 1·1	59·5	+ 2·1	60·0	+ 1·5	57·7	+ 1·6	59·1	+ 1·5	58·6	+ 1·5	62·4	+ 1·7	58·8	+ 1·3
1894 ..	54·1	+ 0·4	54·7	- 0·3	56·1	- 1·0	57·5	- 1·4	56·7	- 1·3	58·9	- 1·1	56·8	- 1·0	55·2	- 0·5	56·8	- 0·6	57·2	- 1·3	55·5	- 0·6	56·3	- 1·3	56·2	- 0·9	59·8	- 0·9	56·5	- 1·0
1895 ..	55·0	+ 1·3	56·5	+ 1·5	59·0	+ 1·9	60·3	+ 1·4	59·5	+ 1·5	61·3	+ 1·3	59·3	+ 1·5	56·8	+ 1·1	58·9	+ 1·5	59·4	+ 0·9	57·1	+ 1·0	57·9	+ 0·3	58·0	+ 0·9	62·1	+ 1·4	58·7	+ 1·2
Lustrum	53·8	+ 0·1	55·1	+ 0·1	56·9	- 0·2	58·6	- 0·3	57·8	- 0·2	59·8	- 0·2	57·6	- 0·2	55·7	0·0	57·6	+ 0·2	58·2	- 0·3	56·2	+ 0·1	57·4	- 0·2	57·0	- 0·1	60·8	+ 0·1	57·3	- 0·2
1896 ..	53·4	- 0·3	54·7	- 0·3	57·2	+ 0·1	58·9	0·0	57·8	- 0·2	60·5	+ 0·5	57·8	0·0	55·7	0·0	57·7	+ 0·3	59·0	+ 0·5	55·7	- 0·4	57·7	+ 0·1	57·2	+ 0·1	61·5	+ 0·8	57·5	0·0
1897 ..	54·5	+ 0·8	55·4	+ 0·4	57·0	- 0·1	58·8	- 0·1	58·1	+ 0·1	60·5	+ 0·5	58·0	+ 0·2	56·2	+ 0·5	57·9	+ 0·5	58·8	+ 0·3	56·4	+ 0·3	57·7	+ 0·1	57·4	+ 0·3	61·0	+ 0·3	57·7	+ 0·2
1898 ..	54·5	+ 0·8	56·3	+ 1·3	58·3	+ 1·2	60·1	+ 1·2	59·6	+ 1·6	61·9	+ 1·9	59·2	+ 1·4	57·0	+ 1·3	58·8	+ 1·4	60·3	+ 1·8	57·7	+ 1·6	59·9	+ 2·3	58·7	+ 1·6	62·9	+ 2·2	59·0	+ 1·5
1899 ..	55·6	+ 1·9	56·5	+ 1·5	58·7	+ 1·6	61·1	+ 2·2	60·7†	+ 2·7	63·0†	+ 3·0	60·0†	+ 2·2	57·3	+ 1·6	59·5	+ 2·1	61·9†	+ 3·4	58·1	+ 2·0	59·9	+ 2·3	59·3	+ 2·2	64·1†	+ 3·4	59·7†	+ 2·2
1900 ..	54·6	+ 0·9	55·5	+ 0·5	58·3	+ 1·2	60·9	+ 2·0	59·5	+ 1·5	61·3	+ 1·3	59·1	+ 1·3	56·4	+ 0·7	58·4	+ 1·0	59·7	+ 1·2	57·1	+ 1·0	58·6	+ 1·0	58·0	+ 0·9	62·3	+ 1·6	58·6	+ 1·1
Lustrum	54·5	+ 0·8	55·7	+ 0·7	57·9	+ 0·8	60·0	+ 1·1	59·1	+ 1·1	61·4	+ 1·4	58·8	+ 1·0	56·5	+ 0·8	58·5	+ 1·1	59·9	+ 1·4	57·0	+ 0·9	58·8	+ 1·2	58·1	+ 1·0	62·4	+ 1·7	58·5	+ 1·0
1901 ..	56·3	+ 2·6	57·4†	+ 2·4	59·5†	+ 2·4	60·9	+ 2·0	60·3	+ 2·3	61·5	+ 1·5	59·9	+ 2·1	57·8	+ 2·1	59·6†	+ 2·2	60·4	+ 1·9	57·2	+ 1·1	59·1	+ 1·5	58·8	+ 1·7	62·2	+ 1·5	59·4	+ 1·9
1902 ..	52·2	- 1·5	53·3	- 1·7	55·7	- 1·4	58·0	- 0·9	56·8	- 1·2	59·2	- 0·8	56·6	- 1·2	54·6	- 1·1	56·3	- 1·1	58·2	- 0·3	55·5	- 0·6	57·8	+ 0·2	56·5	- 0·6	60·7	0·0	56·6	- 0·9
1903 ..	52·5	- 1·2	53·4	- 1·6	55·9	- 1·2	58·3	- 0·6	56·7	- 1·3	59·0	- 1·0	56·7	- 1·1	54·9	- 0·8	56·4	- 1·0	57·9	- 0·6	55·2	- 0·9	57·0	- 0·6	56·3	- 0·8	60·1	- 0·6	56·5	- 1·0
1904 ..	*54·0*	*+ 0·3*	54·9	- 0·1	58·1	+ 1·0	59·7	+ 0·8	58·1	+ 0·1	59·9	- 0·1	58·1	+ 0·3	56·0	+ 0·3	57·7	+ 0·3	59·1	+ 0·6	55·9	- 0·2	57·6	0·0	57·3	+ 0·2	60·8	+ 0·1	57·7	+ 0·2
1905 ..	*54·0*	*+ 0·3*	55·3	+ 0·3	58·3	+ 1·2	60·4	+ 1·5	58·1	+ 0·1	59·9	- 0·1	58·4	+ 0·6	55·8	+ 0·1	57·3	- 0·1	58·3	- 0·2	55·8	- 0·3	57·6	0·0	57·0	- 0·1	60·6	- 0·1	57·7	+ 0·2
Lustrum	*53·8*	*+ 0·1*	54·9	- 0·1	57·5	+ 0·4	59·5	+ 0·6	58·0	0·0	59·9	- 0·1	58·0	+ 0·2	55·8	+ 0·1	57·5	+ 0·1	58·8	+ 0·3	55·9	- 0·2	57·8	+ 0·2	57·2	+ 0·1	60·9	+ 0·2	57·6	+ 0·1
25 yrs. Av.	**53·7**	—	**55·0**	—	**57·1**	—	**58·9**	—	**58·0**	—	**60·0**	—	**57·8**	—	**55·7**	—	**57·4**	—	**58·5**	—	**56·1**	—	**57·6**	—	**57·1**	—	**60·7**	—	**57·5**	—
1906 ..	54·3	+ 0·6	55·8	+ 0·8	59·5†	+ 2·4	61·4†	+ 2·5	60·0	+ 2·0	61·0	+ 1·0	59·5	+ 1·7	56·8	+ 1·1	58·4	+ 1·0	59·3	+ 0·8	58·9	+ 0·8	58·7	+ 1·1	58·0	+ 0·9	61·7	+ 1·0	58·8	+ 1·3
1907 ..	52·3	- 1·4	53·3	- 1·7	56·2	- 0·9	57·8	- 1·1	56·8	- 1·2	58·6	- 1·4	56·5	- 1·3	55·5	- 0·2	56·6	- 0·8	57·8	- 0·7	55·8	- 0·3	58·1	+ 0·5	56·8	- 0·3	60·5	- 0·2	56·7	- 0·8
1908 ..	53·6	- 0·1	54·4	- 0·6	56·9	- 0·2	58·3	- 0·6	57·5	- 0·5	58·9	- 1·1	57·2	- 0·6	56·1	+ 0·4	56·9	- 0·5	58·2	- 0·3	55·9	- 0·2	57·8	+ 0·2	57·0	- 0·1	60·5	- 0·2	57·1	- 0·4
1909 ..	52·7	- 1·0	53·7	- 1·3	56·5	- 0·6	57·9	- 1·0	57·1	- 0·9	58·7	- 1·3	56·8	- 1·0	54·7	- 1·0	56·0	- 1·4	57·8	- 0·7	55·5	- 0·6	57·3	- 0·3	56·3	- 0·8	60·2	- 0·5	56·6	- 0·9

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes.
(Page [V] 1906.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, WITH PERCENTAGES OF AVERAGE FOR 25 YEARS, 1881–1905.

YEARS.	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1–10 combined.	
	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.
		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%
1881	*·30*	*88*	*·32**	*76*	*·42*	*88*	·46	85	·44	92	*·55*	*98*	·44	88	·38	84	·38	83	*·53*	*102*	·38	100	·41	93	·42	93	·68	105	·43	90
1882	*·30*	*88*	*·45*	*107*	*·54*	*113*	·52	96	·45	94	·54	96	·50	100	·46	102	·43	93	*·50*	*96*	·37	97	·45	102	·44	98	·63	97	·47	98
1883	*·30*	*88*	*·38*	*90*	*·46*	*96*	·48	89	·41	85	·47	81	·44	88	·45	100	·44	*96*	*·44**	*85*	·33	87	·39	89	·41	91	·59	91	·43	90
1884	*·35*	*103*	*·43*	*102*	*·50*	*104*	·55	102	·48	100	·53	95	·50	100	·44	98	·46	100	*·52*	*100*	·37	97	·43	98	·44	98	·61	94	·47	98
1885	*·36*	*106*	*·49*	*117*	*·41*	*85*	·51	94	·51	106	·54	96	·49	98	·47	104	·50	109	*·56*	*108*	·37	97	·49	111	·48	107	·72	111	·49	102
Lustrum	*·32*	*94*	*·41*	*98*	*·47*	*98*	·50	93	·46	96	·53	95	·47	94	·44	98	·44	96	*·51*	*98*	·36	95	·43	98	·44	98	·65	100	·46	96
1886	*·35*	*103*	*·46*	*110*	*·47*	*98*	·58	107	·49	102	·56	100	·51	102	·44	98	·47	102	*·47*	*90*	·35	92	·42	95	·43	96	·66	102	·47	98
1887	*·29*	*85*	·42	100	*·50*	*104*	·57	106	·53	110	·60	107	·52	104	·48	107	·49	107	*·61*	*117*	·38	100	·48	109	·49	109	·70	108	·51	106
1888	*·29*	*85*	·37	88	*·36**	*75*	·40*	74	*·38**	79	*·42**	75	·39*	78	·37*	82	·38	83	*·44**	*85*	·33	87	·44	100	·39*	87	·57	88	·39*	81
1889	·25*	74	·37	88	*·39*	*81*	46	85	·43	90	·48	86	·43	86	·41	91	·40	87	*·46*	*88*	·34	89	·43	98	·41	91	·63	97	·42	88
1890	·33	97	*·44*	*105*	*·51*	*106*	·53	98	·47	98	·51	91	·49	98	·45	100	·43	93	*·47*	*90*	·38	100	·43	98	·43	96	·63	97	·46	96
Lustrum	*·30*	*88*	*·41*	*98*	*·45*	*94*	·51	94	·46	96	·51	91	·47	94	·43	96	·43	93	*·49*	*94*	·36	95	·44	100	·43	96	·64	98	·45	94
1891	*·29*	*85*	*·38*	*90*	*·39*	*81*	·46	85	·43	90	·50	89	·43	86	·41	91	·36*	78	*·47*	*90*	·36	95	·41	93	·40	89	·60	92	·42	88
1892	*·32*	*94*	*·40*	*95*	*·41*	*85*	·48	89	·42	88	·52	93	·45	90	·44	98	·40	87	*·47*	*90*	·35	92	·37*	84	·41	91	·67	103	·43	90
1893	*·32*	*94*	*·45*	*107*	*·54*	*113*	·56	104	·54	113	·59	105	·54	108	·49	109	·48	104	*·55*	*106*	·45	118	·49	111	·49	109	·72	111	·52	108
1894	*·35*	*103*	*·41*	*98*	*·46*	*96*	·44	82	·39	81	·46	82	·43	86	·46	102	*·39*	*85*	*·44**	*85*	·37	97	·37*	84	·41	91	·52*	80	·42	88
1895	*·26*	*76*	*·42*	*100*	*·54*	*113*	·63	117	·55	115	·65	116	·56	112	·42	93	*·48*	*104*	*·54*	*104*	·31*	82	·39	89	·43	96	·69	106	·50	104
Lustrum	*·31*	*91*	*·41*	*98*	*·47*	*98*	·51	94	·47	98	·54	96	·48	96	·44	98	*·42*	*91*	*·49*	*94*	·37	97	·41	93	·43	96	·64	98	·46	96
1896	*·32*	*94*	*·39*	*93*	*·39*	*81*	·47	87	*·38**	79	·53	95	·43	86	·40	89	*·38*	*83*	*·52*	*100*	·33	87	·42	95	·41	91	·64	98	·42	88
1897	*·43†*	*126*	*·55†*	*131*	*·62†*	*129*	·60	111	·57	119	·61	109	·59	118	·52†	116	·56	122	*·54*	*104*	·45	118	·47	107	·51	113	·61	94	·55	115
1898	·42	124	*·51*	*121*	*·50*	*104*	·60	111	·55	115	·63	113	·56	112	·45	100	·50	109	*·59*	*113*	·42	111	·51†	116	·49	109	·78†	120	·53	110
1899	·41	121	*·46*	*110*	*·51*	*106*	·68	126	·60†	125	·75†	134	·60	120	·46	102	·53	115	*·67†*	*129*	·43	113	·50	114	·52	116	·78†	120	·56	117
1900	·35	103	*·42*	*100*	*·51*	*106*	·64	119	·55	115	*·72*	*129*	·57	114	·42	93	·56	122	*·64*	*123*	·44	116	·51†	116	·51	113	·78†	120	·54	113
Lustrum	*·39*	*115*	*·47*	*112*	*·51*	*106*	·60	111	·53	110	·65	116	·55	110	·45	100	·51	111	*·59*	*113*	·41	108	·48	109	·49	109	·72	111	·52	108
1901	·40	118	·48	114	*·58*	*121*	·62	115	·50	104	*·62*	*111*	·56	112	·50	111	·57	124	*·51*	*98*	·35	92	·41	93	·47	104	·66	102	·52	108
1902	·31	91	·33	79	*·41*	*85*	·57	106	·46	96	·54	96	·46	92	·45	100	·49	107	*·53*	*102*	·40	105	·49	111	·47	104	·64	98	·47	98
1903	·38	112	·42	100	*·49*	*102*	·48	89	·43	90	·52	93	·47	94	·48	107	·47	102	*·50*	*96*	·41	108	·43	98	·46	102	·60	92	·47	98
1904	·40	118	·41	98	·55	115	·68	126	·56	117	·67	120	·57	114	·48	107	·55	120	·60	115	·43	113	·47	107	·51	113	·69	106	·54	112
1905	·37	109	·44	105	·54	113	·57	106	·51	106	·55	98	·52	104	·46	102	·48	104	·51	98	·38	100	·39	89	·44	98	·58	89	·48	100
Lustrum	·37	109	·42	100	*·51*	*106*	·58	107	·49	102	·58	104	·52	104	·47	104	·51	111	*·53*	*102*	·39	103	·44	100	·47	104	·63	97	·50	104
25 years average ..	**·34**	—	**·42**	—	**·48**	—	**·54**	—	**·48**	—	**·56**	—	**·50**	—	**·45**	—	**·46**	—	**·52**	—	**·38**	—	**·44**	—	**·45**	—	**·65**	—	**·48**	—
1906	·43†	126	·50	119	·60	125	·69†	128	·60†	125	·69	123	·62†	124	·52†	116	·58†	126	·62	119	·47†	124	·50	114	·54†	120	·71	109	·58†	121
1907	·36	106	·42	100	·49	102	·54	100	·48	100	·58	104	·50	100	·46	102	·47	102	·55	106	·40	105	·44	100	·46	102	·64	98	·48	100
1908	·33	97	·38	90	·46	96	·55	102	·48	100	·62	111	·50	100	·44	98	·49	107	·55	106	·40	105	·47	107	·47	104	·65	100	·48	100
1909	·37	109	·41	98	·43	90	·50	93	·44	92	·52	93	·46	92	·44	98	·43	93	·52	100	·36	95	·44	100	·44	98	·61	94	·45	94

(15471—24.) Wt. 103—466. 450. 3/10. D & S.

Thirty-second Year.
VOL. XXVI. [*New Series.*] } APPENDIX I. FOURTH QUARTER, 1909. [*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-TWO YEARS, 1878–1909.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 25 YEARS, 1881–1905.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			MEANS FOR EASTERN DISTRICTS.			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			MEANS FOR WESTERN DISTRICTS.			11. ENGLISH CHANNEL.			MEANS FOR DISTRICTS 1-10 COMBINED.		
	Days.	Amount.	Per cent. of average.	Days.	Amount	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		Ins.	%		Ins.	%		ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%
1878	72	*14·2*	*84*	53	*10·6*	*116*	60	10·4	139	57	*9·0*	*134*	51	7·8	101	48	8·3	94	54	9·2	115	45	*12·7*	*84*	55	9·1	83	64	13·3	100	65	11·7	101	53	8·1	65	56	11·0	87	74	15·4	132	55	10·1	97
1879	58	9·7*	57	41	*6·2*	*68*	38	3·6*	48	44	3·1*	46	33	2·8*	36	32	2·5*	28	38	3·6*	46	31	4·3*	32	42	4·9*	42	37	4·2*	34	36	5·1*	40	38	4·2*	36	37	4·4*	42
1880§..	75	*16·1*	*90*	54	*10·7*	*118*	56	9·8	131	58	*8·8*	*131*	49	11·0	143	51	12·9	147	54	10·5	131	57	*12·8*	*85*	53	13·6	125	58	16·4	123	60	9·6	83	53	12·4	99	56	12·8	101	69	18·2	156	55	11·7	113
1881	64	*14·3*	*84*	58	*9·4*	*103*	54	7·2	96	60	*8·0*	*119*	51	8·6	112	52	9·5	108	55	8·5	106	56	*16·5*	*109*	54	11·9	109	59	14·2	107	65	12·1	104	62	13·4	107	59	13·6	107	65	12·6	108	57	11·1	107
1882	71	*15·2*	*89*	67	14·8†	163	72	11·2†	149	69	11·0†	164	71	13·0†	169	67	12·6	143	69	12·5†	156	63	*17·7*	*117*	67	13·2	121	74	19·8†	149	65	12·5	108	68	14·8	118	67	15·6	123	83	19·0†	162	68	14·1†	136
1883	75	*18·9*	*111*	48	*7·6*	*84*	53	5·8	77	60	*7·2*	*107*	52	7·4	96	49	7·2	82	52	7·0	88	66	*9·4*	*62*	57	11·3	104	62	11·8	89	71	12·2	105	60	11·1	89	63	11·2	88	63	10·3	88	58	9·1	88
1884	68	*18·6*	*109*	52	*8·9*	*98*	44	5·1	68	50	*6·5*	*97*	47	5·3	69	42	6·0	68	47	6·4	80	52	*16·9*	*112*	51	8·7	80	57	10·2	77	64	13·2	114	54	9·8	78	56	11·8	93	62	8·7	74	52	9·1	88
1885	63	*14·1*	*83*	45	*5·9*	*65*	51	7·0	93	55	*8·7*	*130*	52	8·6	112	50	9·0	102	51	7·8	98	52	*11·8*	*78*	50	9·8	90	59	12·7	95	54	8·9	77	59	10·1	81	55	10·7	84	62	11·3	97	53	9·3	89
Lustrum	68	*16·2*	*95*	54	*9·3*	*102*	55	7·3	97	59	*8·3*	*124*	55	8·6	112	52	8·9	101	55	8·5	106	58	*14·5*	*96*	56	11·0	101	62	13·7	103	64	11·8	102	61	11·8	94	60	12·6	99	67	12·4	106	58	10·6	102
1886§..	75	*18·3*	*108*	60	*10·1*	*111*	56	10·0	133	58	*9·0*	*133*	64	10·9	142	67	14·4†	164	61	10·8	135	65	16·8	111	69	14·3†	131	75	19·1	144	71	15·5†	134	69	16·0	128	70	16·3	128	85	16·3	139	66	13·5	130
1887	73	*14·0*	*82*	55	7·8	86	59	7·7	103	56	*6·9*	*88*	47	5·9	77	50	7·8	89	53	7·0	88	51	12·4	82	55	8·1	74	55	12·0	90	57	10·0	88	47	9·7	78	53	10·4	82	64	11·9	102	53	8·7	84
1888	69	*17·1*	*101*	57	9·3	102	46	5·7	76	42	*5·3*	*79*	43	8·4	109	50	8·6	98	48	7·5	94	57	16·8	111	56	10·1	93	61	14·0	105	66	10·4	90	63	13·8	110	61	13·0	102	66	10·2	87	55	10·3	99
1889	65	*13·1*	*77*	52	6·6	73	49	6·6	88	51	*5·6*	*84*	47	5·3	69	46	8·2	93	49	6·5	81	58	13·3	88	58	9·4	86	59	11·8	89	61	10·8	93	59	11·6	93	59	11·4	90	66	12·2	104	54	9·0	87
1890§..	74	*20·7*	*122*	62	10·8	119	56	6·7	89	46	*5·1*	*76*	49	5·6	73	48	4·9	56	52	6·6	83	60	17·1	113	56	11·4	115	62	11·3	85	65	13·6	117	58	11·8	94	60	13·0	102	63	8·9	76	56	9·8	94
Lustrum	71	*16·6*	*98*	57	8·9	98	53	7·3	97	51	*6·1*	*91*	50	7·2	94	52	8·8	100	53	7·7	96	58	15·3	101	59	10·7	98	62	13·6	102	64	12·1	104	59	12·6	101	60	12·8	101	69	11·9	102	57	10·3	99
1891	61	15·9	94	51	9·7	107	52	7·8	104	62	*8·5*	*127*	60	11·4	148	62	13·6	155	57	10·2	128	60	20·8	138	58	14·2	130	64	18·2	137	64	12·4	107	61	16·5	132	61	16·4	129	66	14·6	125	59	13·3	128
1892	65	14·5	85	53	8·0	88	55	7·3	97	49	*8·3*	*124*	48	6·1	79	47	8·6	98	50	7·7	96	57	13·0	86	56	10·5	96	57	10·1	76	68	10·5	91	59	11·3	90	59	11·1	87	63	10·3	88	55	9·4	90
1893	76	24·2	142	57	8·2	90	52	5·9	79	55	*7·2*	*107*	50	6·7	87	51	8·9	101	53	7·4	93	65	16·4	108	61	10·4	95	56	12·1	91	65	10·1	87	57	10·4	83	61	11·9	94	61	9·2	79	57	9·7	93
1894	66	15·8	93	48	7·4	81	54	7·0	93	56	*7·3*	*109*	53	8·9	116	52	10·8	123	53	8·3	104	62	15·3	101	58	11·4	105	55	16·2	122	60	10·9	94	53	14·1	113	58	13·6	107	58	12·3	105	56	11·0	106
1895	66	16·6	98	58	10·6	116	55	8·2	109	52	*7·0*	*104*	53	8·6	112	56	10·5	119	55	9·0	113	53	14·2	94	59	11·9	109	65	16·6	125	63	12·7	109	62	13·8	110	60	13·8	109	74	15·3	131	58	11·4	110
Lustrum	67	17·4	102	53	8·8	97	54	7·2	96	55	*7·7*	*115*	53	8·3	108	54	10·5	119	54	8·5	100	59	15·9	105	58	11·7	107	59	14·6	110	64	11·3	97	58	13·2	106	60	13·3	105	64	12·3	105	57	10·9	105
1896§..	71	15·9	94	62	10·4	114	68	11·1	148	61	*7·5*	*112*	58	8·2	106	57	9·3	106	61	9·2	115	58	13·1	87	57	11·2	103	63	14·0	105	62	10·4	90	58	11·5	92	60	11·6	91	76	12·9	110	61	10·4	100
1897	59	14·7	86	47	7·7	85	43	5·2	69	37	*3·7*	*55*	42	6·0	78	37	5·5	63	41	5·6	70	55	*13·9*	*92*	44	11·2	103	44	11·0	83	54	10·4	90	49	15·0	120	49	12·3	97	46	8·9	76	45	9·0	87
1898	71	24·4†	144	59	11·4	125	52	8·5	113	48	*6·8*	*101*	50	8·3	108	48	9·2	105	51	8·8	110	62	*16·1*	*106*	63	10·5	96	64	15·3	115	69	11·7	101	64	13·5	108	64	13·4	106	68	12·7	109	58	11·1	107
1899	67	18·5	109	48	8·6	95	40	6·3	84	38	*6·3*	*94*	35	6·9	90	34	8·4	95	39	7·3	91	59	*15·0*	*99*	41	9·3	85	45	11·4	86	58	11·2	97	50	13·2	106	51	12·0	94	46	9·9	85	45	9·7	93
1900	76	22·3	131	71	12·8	141	60	9·2	123	60	*5·6*	*84*	61	8·3	108	59	8·8	100	62	8·9	111	72	21·2†	140	64	13·4	123	69	15·9	120	71	15·2	131	67	18·8†	150	69	16·9†	133	71	12·2	104	66	12·9	124
Lustrum	69	19·2	113	57	10·2	112	53	8·1	108	49	*5·9*	*88*	49	7·5	97	47	8·2	93	51	8·0	100	61	*15·4*	*102*	54	11·1	102	57	13·5	102	63	11·8	102	58	14·4	115	59	13·2	104	61	11·3	97	55	10·6	102
1901	71	15·5	91	55	8·7	96	46	9·5	127	44	*7·1*	*106*	41	6·9	90	41	6·8	77	45	7·8	98	64	*15·8*	*105*	53	11·8	108	49	9·9	74	66	12·6	109	55	10·9	87	57	12·2	96	58	10·3	88	51	10·0	96
1902§..	62	15·9	94	59	8·7	96	51	6·5	87	48	*4·6*	*69*	50	7·4	96	51	7·5	86	52	6·9	86	62	*16·6*	*110*	56	9·7	89	56	12·0	90	62	12·9	103	60	12·9	103	60	12·0	94	68	12·7	109	56	9·5	91
1903	65	16·6	98	63	10·0	110	55	10·0	133	52	*7·6*	*113*	57	9·3	121	56	11·0	125	57	9·6	120	66	19·1	126	63	13·4	123	65	15·5	117	71	12·7	109	66	12·3	98	66	14·6	115	74	13·2	113	62	12·1	116
1904	74	*15·4*	*91*	47	4·7*	52	37	4·3	57	41	*4·6*	*69*	40	4·2	55	42	6·7	76	41	4·9	61	53	11·4	75	44	8·1	74	47	9·0	68	65	9·1	78	50	7·6	61	52	9·0	71	61	10·3	88	47	7·0	67
1905	72	*15·5*	*91*	61	9·9	109	50	6·9	92	48	*5·2*	*78*	46	5·3	69	45	7·0	80	50	6·9	88	53	12·5	83	49	8·4	77	46	8·6	65	65	10·1	87	53	7·8	62	53	9·5	75	58	9·1	78	52	8·2	79
Lustrum	69	*15·8*	*93*	57	8·4	92	48	7·4	99	47	*5·7*	*85*	47	6·6	86	47	7·8	89	49	7·2	90	60	*14·7*	*97*	53	10·3	94	53	11·0	83	66	11·0	95	57	10·3	82	58	11·5	91	64	10·6	91	54	9·4	90
25 years average ..	**69**	**17·0**	—	**56**	**9·1**	—	**52**	**7·5**	—	**52**	**6·7**	—	**51**	**7·7**	—	**50**	**8·8**	—	**52**	**8·0**	—	**59**	**15·1**	—	**56**	**10·9**	—	**59**	**13·3**	—	**64**	**11·6**	—	**59**	**12·5**	—	**59**	**12·7**	—	**65**	**11·7**	—	**56**	**10·4**	—
1906	76	17·6	104	62	13·1	144	58	9·6	128	51	9·1	136	59	9·6	125	56	10·9	124	57	10·5	131	62	15·0	99	64	12·3	113	63	13·6	102	70	11·5	99	67	10·7	86	65	12·6	99	64	11·8	101	61	11·6	112
1907	67	12·6	74	58	11·3	124	61	9·2	123	57	7·7	115	59	11·0	143	58	11·7	133	59	10·2	128	65	16·7	111	63	12·8	117	70	16·8	126	69	11·7	101	73	15·3	122	68	14·7	116	66	14·2	121	64	12·5	120
1908§..	66	15·1	89	50	6·2	68	45	4·0	53	47	4·6	69	49	5·0	65	48	6·1	69	48	5·2	65	61	11·9	79	53	8·1	74	55	9·1	68	62	9·6	83	67	10·0	80	59	9·7	76	57	8·3	71	53	7·5	72
1909	71	17·5	103	56	9·2	101	55	7·5	108	61	8·9	133	58	8·5	110	54	11·5	131	57	9·1	114	54	16·1	107	62	13·5	124	63	14·4	108	65	11·5	99	66	11·6	93	62	13·4	106	65	12·7	109	60	11·3	109

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 25 years average in each district is shown in clarendon type. * Minimum and † Maximum values 1878-1909. § Quarter contains 14 weeks.

Meteorological Office, 63, Victoria Street, London, S.W.
February 26th, 1910.

W. N. SHAW,
Director.

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 25 YEARS, 1881–1905.

YEARS.	0. Scotland, N. °	Diff.	1. Scotland, E. °	Diff.	2. England, N.E. °	Diff.	3. England, E. °	Diff.	4. Midland Counties. °	Diff.	5. England, S.E. °	Diff.	Means for Eastern Districts. °	Diff.
			Eastern Districts.											
1878 ..	40·0	− 2·2	39·0*	− 2·7	39·8*	− 3·6	40·8	− 2·8	40·7	− 2·3	42·3	− 3·0	40·5	− 2·9
1879 ..	41·2	− 1·0	40·2	− 1·5	40·3	− 3·1	39·7*	− 3·9	39·8*	− 3·2	41·2*	− 4·1	40·2*	− 3·2
1880§ ..	39·3*	− 2·9	39·6	− 2·1	42·4	− 1·0	43·6	0·0	42·7	− 0·3	45·3	0·0	42·8	− 0·6
1881 ..	42·8	+ 0·6	42·1	+ 0·4	43·2	− 0·2	43·5	− 0·1	43·2	− 0·2	45·2	− 0·1	43·4	0·0
1882 ..	40·6	− 1·6	39·3	− 2·4	43·6	+ 0·2	43·5	− 0·1	42·8	− 0·2	45·5	+ 0·2	42·9	− 0·5
1883 ..	41·8	− 0·4	42·1	+ 0·4	43·8	+ 0·4	44·2	+ 0·6	43·8	+ 0·8	45·6	+ 0·3	43·9	+ 0·5
1884 ..	41·8	− 0·4	41·8	+ 0·1	43·8	+ 0·4	43·6	0·0	43·3	+ 0·3	45·3	0·0	43·6	+ 0·2
1885 ..	40·9	− 1·3	40·7	− 1·0	42·6	− 0·8	42·3	− 1·3	41·9	− 1·1	44·0	− 1·3	42·3	− 1·1
Lustrum	41·6	− 0·6	41·2	− 0·5	43·4	0·0	43·4	− 0·2	43·0	0·0	45·1	− 0·2	43·2	− 0·2
1886§ ..	42·0	− 0·2	41·7	0·0	43·6	+ 0·2	43·9	+ 0·3	43·5	+ 0·5	45·6	+ 0·3	43·8	+ 0·4
1887 ..	39·4	− 2·8	39·4	− 2·3	40·3	− 3·1	40·2	− 3·4	39·9	− 3·1	41·7	− 3·6	40·3	− 3·1
1888 ..	43·4	+ 1·2	43·4	+ 1·7	44·1	+ 0·7	43·9	+ 0·3	43·8	+ 0·8	46·1	+ 0·8	44·3	+ 0·9
1889 ..	43·4	+ 1·2	42·2	+ 0·5	43·1	− 0·3	43·0	− 0·6	42·7	− 0·3	44·9	− 0·3	43·2	− 0·2
1890§ ..	42·6	+ 0·4	41·4	− 0·3	42·1	− 1·3	40·5	− 3·1	40·4	− 2·6	42·2	− 3·1	41·4	− 2·0
Lustrum	42·3	+ 0·1	41·6	− 0·1	42·6	− 0·8	42·3	− 1·3	42·1	− 0·9	44·1	− 1·2	42·6	− 0·8
1891 ..	42·0	− 0·2	40·8	− 0·9	42·3	− 1·1	43·6	0·0	42·5	− 0·5	45·6	+ 0·3	43·0	− 0·4
1892 ..	40·2	− 2·0	39·1	− 2·6	40·9	− 2·5	41·5	− 2·1	40·5	− 2·5	43·5	− 1·8	41·1	− 2·3
1893 ..	41·9	− 0·3	42·0	+ 0·3	41·0	+ 0·6	43·9	+ 0·3	43·4	+ 0·4	45·3	0·0	43·7	+ 0·3
1894 ..	44·0	+ 1·8	42·6	+ 0·9	44·7	+ 1·3	45·5	+ 1·9	45·2	+ 2·2	47·4	+ 2·1	45·1	+ 1·7
1895 ..	41·2	− 1·0	40·4	− 1·3	43·0	− 0·4	43·8	+ 0·2	42·9	− 0·1	46·0	+ 0·7	43·2	− 0·2
Lustrum	41·9	− 0·3	41·0	− 0·7	43·0	− 0·4	43·7	+ 0·1	42·9	− 0·1	45·6	+ 0·3	43·2	− 0·2
1896§ ..	41·2	− 1·0	40·5	− 1·2	41·9	− 1·5	41·8	− 1·8	40·9	− 2·1	43·5	− 1·8	41·7	− 1·7
1897 ..	43·2	+ 1·0	42·9	+ 1·2	45·0	+ 1·6	44·4	+ 0·8	44·2	+ 1·2	47·4	+ 2·1	44·8	+ 1·4
1898 ..	44·3	+ 2·1	44·2	+ 2·5	47·0†	+ 3·6	47·4†	+ 3·8	46·7†	+ 3·7	49·3†	+ 4·0	46·9†	+ 3·5
1899 ..	44·0	+ 1·8	42·7	+ 1·0	43·9	+ 0·5	44·0	+ 0·4	42·9	− 0·1	46·2	+ 0·9	43·9	+ 0·5
1900 ..	43·4	+ 1·2	43·2	+ 1·5	46·1	+ 2·7	46·7	+ 3·1	46·0	+ 3·0	48·3	+ 3·0	46·1	+ 2·7
Lustrum	43·2	+ 1·0	42·7	+ 1·0	44·8	+ 1·4	44·9	+ 1·3	44·1	+ 1·1	46·9	+ 1·6	44·7	+ 1·3
1901 ..	41·7	− 0·5	41·0	− 0·7	43·0	− 0·4	43·5	− 0·1	42·3	− 0·7	45·0	− 0·3	43·0	− 0·4
1902§ ..	44·0	+ 1·8	42·8	+ 1·1	44·9	+ 1·5	44·7	+ 1·1	44·1	+ 1·1	45·8	+ 0·5	44·6	+ 1·2
1903 ..	41·2	− 1·0	40·6	− 1·1	43·0	− 0·4	44·1	+ 0·5	42·9	− 0·1	45·4	+ 0·1	43·2	− 0·2
1904 ..	42·5	+ 0·3	41·9	+ 0·2	43·4	0·0	44·0	+ 0·4	42·6	− 0·4	45·3	0·0	43·4	0·0
1905 ..	42·2	0·0	41·7	0·0	42·5	− 0·9	42·4	− 1·2	41·8	− 1·2	43·3	− 2·0	42·3	− 1·1
Lustrum	42·4	+ 0·2	41·7	0·0	43·4	0·0	43·7	+ 0·1	42·7	− 0·3	45·0	− 0·3	43·3	− 0·1
25 yrs. Av.	**42·2**	—	**41·7**	—	**43·4**	—	**43·6**	—	**43·0**	—	**45·3**	—	**43·4**	—
1906 ..	43·3	+ 1·1	43·3	+ 1·6	44·9	+ 1·5	46·1	+ 2·5	44·9	+ 1·9	46·8	+ 1·5	45·2	+ 1·8
1907 ..	43·2	+ 1·0	42·7	+ 1·0	44·9	+ 1·5	46·6	+ 3·0	44·9	+ 1·9	47·7	+ 2·4	45·4	+ 2·0
1908§ ..	46·3†	+ 4·1	45·0†	+ 3·3	46·0	+ 2·6	46·6	+ 3·0	46·1	+ 3·1	47·7	+ 2·4	46·3	+ 2·9
1909 ..	40·3	− 1·9	40·7	− 1·0	42·8	− 0·6	44·2	+ 0·6	42·9	− 0·1	44·7	− 0·6	43·1	− 0·3

YEARS.	6. Scotland, W. °	Diff.	7. England, N.W. and North Wales. °	Diff.	8. South Wales and England, S.W. °	Diff.	9. Ireland, N. °	Diff.	10. Ireland, S. °	Diff.	Means for Western Districts. °	Diff.	11. English Channel. °	Diff.	Means for Districts 1–10 combined. °	Diff.
	Western Districts.															
1878 ..	40·7*	− 3·1	41·5	− 2·9	44·5	− 1·6	42·1	− 2·3	42·8*	− 3·1	42·3	− 2·6	47·4	− 2·2	41·4	− 2·8
1879 ..	41·9	− 1·9	42·0	− 2·4	45·3	− 0·8	43·0	− 1·4	45·0	− 0·9	43·4	− 1·5	46·9	− 2·7	41·8	− 2·4
1880§ ..	41·8	− 2·0	43·6	− 0·8	47·7	+ 1·6	42·9	− 1·5	44·9	− 1·0	44·2	− 0·7	49·7	+ 0·1	43·5	− 0·7
1881 ..	44·0	+ 0·2	44·5	+ 0·1	47·7	+ 1·6	44·3	− 0·1	46·8	+ 0·9	45·5	+ 0·6	49·3	− 0·3	44·5	+ 0·3
1882 ..	42·2	− 1·6	44·0	− 0·4	46·5	+ 0·4	42·8	− 1·6	44·6	− 1·3	44·0	− 0·9	49·3	− 0·3	43·5	− 0·7
1883 ..	43·9	+ 0·1	45·0	+ 0·6	46·9	+ 0·8	44·6	+ 0·2	46·5	+ 0·6	45·4	+ 0·5	49·5	− 0·1	44·7	+ 0·5
1884 ..	43·5	− 0·3	44·4	0·0	46·2	+ 0·1	44·1	− 0·3	45·1	− 0·8	44·7	− 0·2	49·3	− 0·3	44·2	0·0
1885 ..	42·5	− 1·3	42·7	− 1·7	45·0	− 1·1	43·7	− 0·7	45·1	− 0·8	43·8	− 1·1	48·3	− 1·3	43·1	− 1·1
Lustrum	43·2	− 0·6	44·1	− 0·3	46·5	+ 0·4	43·9	− 0·5	45·6	− 0·3	44·7	− 0·2	49·1	− 0·5	44·0	− 0·2
1886§ ..	43·9	+ 0·1	44·7	+ 0·3	46·3	+ 0·2	44·2	− 0·2	45·8	− 0·1	45·1	+ 0·2	49·8	+ 0·2	44·5	+ 0·3
1887 ..	40·7*	− 3·1	41·3*	− 3·1	42·7*	− 3·4	41·8*	− 2·6	42·8*	− 3·1	41·9*	− 3·0	46·5*	− 3·1	41·1*	− 3·1
1888 ..	45·0	+ 1·2	45·3	+ 0·9	47·1	+ 1·0	45·5	+ 1·1	47·0	+ 1·1	46·0	+ 1·1	50·6	+ 1·0	45·2	+ 1·0
1889 ..	44·4	+ 0·6	44·1	− 0·3	45·8	− 0·3	45·0	+ 0·6	46·2	+ 0·3	45·1	+ 0·2	49·1	− 0·5	44·2	0·0
1890§ ..	43·2	− 0·6	42·6	− 1·8	44·0	− 2·1	44·3	− 0·1	45·6	− 0·3	44·0	− 0·9	47·5	− 2·1	42·7	− 1·5
Lustrum	43·4	− 0·4	43·6	− 0·8	45·2	− 0·9	44·2	− 0·2	45·5	− 0·4	44·4	− 0·5	48·7	− 0·9	43·5	− 0·7
1891 ..	43·5	− 0·3	43·7	− 0·7	45·9	− 0·2	43·3	− 1·1	44·8	− 1·1	44·2	− 0·7	49·4	− 0·2	43·6	− 0·6
1892 ..	41·5	− 2·3	42·1	− 2·3	44·5	− 1·6	42·9	− 1·5	44·6	− 1·3	43·1	− 1·8	48·2	− 1·4	42·1	− 2·1
1893 ..	44·1	+ 0·3	45·3	+ 0·9	46·0	− 0·1	44·0	− 0·4	45·5	− 0·4	45·0	+ 0·1	49·4	− 0·2	44·4	+ 0·2
1894 ..	45·5	− 1·7	46·7	+ 2·3	48·0	+ 1·9	45·6	+ 1·2	47·3	+ 1·4	46·6	+ 1·7	51·2	+ 1·6	45·9	+ 1·7
1895 ..	42·9	− 0·9	44·2	− 0·2	46·6	+ 0·5	43·0	− 1·4	45·3	− 0·6	44·4	− 0·5	51·0	+ 1·4	43·8	− 0·4
Lustrum	43·5	− 0·3	44·4	0·0	46·2	+ 0·1	43·8	− 0·6	45·5	− 0·4	44·7	− 0·2	49·8	+ 0·2	44·0	− 0·2
1896§ ..	42·2	− 1·6	42·5	− 1·9	43·3	− 2·8	42·2	− 2·2	43·3	− 2·6	42·7	− 2·2	47·5	− 2·1	42·2	− 2·0
1897 ..	45·8	+ 2·0	46·6	+ 2·2	48·1	+ 2·0	46·2	+ 1·8	48·4	+ 2·5	47·0	+ 2·1	51·5	+ 1·9	45·9	+ 1·7
1898 ..	46·8	+ 3·0	48·1†	+ 3·7	49·5†	+ 3·4	47·1	+ 2·7	48·8	+ 2·9	48·1	+ 3·2	52·7†	+ 3·1	47·5†	+ 3·3
1899 ..	44·7	+ 0·9	44·8	+ 0·4	47·0	+ 0·9	46·1	+ 1·7	47·6	+ 1·7	46·0	+ 1·1	51·1	+ 1·5	45·0	+ 0·8
1900 ..	45·3	+ 1·5	46·9	+ 2·5	48·2	+ 2·1	45·5	+ 1·1	47·4	+ 1·5	46·7	+ 1·8	52·2	+ 2·6	46·4	+ 2·2
Lustrum	44·9	+ 1·1	45·8	+ 1·4	47·2	+ 1·1	45·4	+ 1·0	47·1	+ 1·2	46·1	+ 1·2	51·0	+ 1·4	45·4	+ 1·2
1901 ..	43·2	− 0·6	44·1	− 0·3	45·2	− 0·9	44·4	0·0	45·5	− 0·4	44·5	− 0·4	49·6	0·0	43·8	− 0·4
1902§ ..	45·1	+ 1·3	45·3	+ 0·9	46·6	+ 0·5	45·9	+ 1·5	47·5	+ 1·6	46·2	+ 1·3	49·9	+ 0·3	45·4	+ 1·2
1903 ..	43·1	− 0·7	43·9	− 0·5	46·1	0·0	43·9	− 0·5	45·1	− 0·8	44·4	− 0·5	49·5	− 0·1	43·8	− 0·4
1904 ..	43·7	− 0·1	44·1	− 0·3	46·0	− 0·1	45·0	+ 0·6	47·0	+ 1·1	45·2	+ 0·3	50·5	+ 0·9	44·3	+ 0·1
1905 ..	43·3	− 0·5	43·5	− 0·9	43·8	− 2·3	44·3	− 0·1	45·0	− 0·9	44·0	− 0·9	48·1	− 1·5	43·2	− 1·0
Lustrum	43·8	0·0	44·2	− 0·2	45·5	− 0·6	44·7	+ 0·3	46·0	+ 0·1	44·8	− 0·1	49·5	− 0·1	44·1	− 0·1
25 yrs. Av.	**43·8**	—	**44·4**	—	**46·1**	—	**44·4**	—	**45·9**	—	**44·9**	—	**49·6**	—	**44·2**	—
1906 ..	44·7	+ 0·9	45·5	+ 1·1	46·5	+ 0·4	45·4	+ 1·0	46·8	+ 0·9	45·8	+ 0·9	50·5	+ 0·9	45·5	+ 1·3
1907 ..	44·5	+ 0·7	45·3	+ 0·9	46·8	+ 0·7	45·3	+ 0·9	46·0	+ 0·1	45·6	+ 0·7	51·0	+ 1·4	45·5	+ 1·3
1908§ ..	47·2†	+ 3·4	47·2	+ 2·8	49·2	+ 3·1	48·5†	+ 4·1	49·7†	+ 3·8	48·4†	+ 3·5	52·5	+ 2·9	47·4	+ 3·2
1909 ..	41·7	− 2·1	43·4	− 1·0	45·1	− 1·0	43·3	− 1·1	44·4	− 1·5	43·6	− 1·3	48·7	− 0·9	43·4	− 0·8

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V] 1908.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, WITH PERCENTAGES OF AVERAGE FOR 25 YEARS, 1881–1905.

YEARS.	0. Scotland, N. Th.-hrs.	Per cent. of av.	1. Scotland, E. Th.-hrs.	Per cent. of av.	2. England, N.E. Th.-hrs.	Per cent. of av.	3. England, E. Th.-hrs.	Per cent. of av.	4. Midland Counties. Th.-hrs.	Per cent. of av.	5. England, S.E. Th.-hrs.	Per cent. of av.	Means for Eastern Districts Th.-hrs.	Per cent. of av.
			Eastern Districts.											
1881	·14	108	·17	100	·21	111	·21	100	·22†	122	·21	100	·20	105
1882	·14	108	·14	82	·15	79	·17	81	·16	89	·21	100	·17	89
1883	·17†	131	·23†	135	·22	116	·20	95	·19	106	·19	90	·21	111
1884	·11	85	·16	94	·16	84	·17	81	·15	83	·16*	76	·16	84
1885	·14	108	·20	118	·14*	74	·20	95	·16	89	·18	86	·18	95
Lustrum	·14	108	·18	106	·18	95	·19	90	·18	100	·19	90	·18	95
1886§	·17†	131	·17	100	·25†	132	·24	114	·18	100	·23	110	·21	111
1887	·09	69	·15	88	·18	95	·21	100	·19	106	·20	95	·19	100
1888	·09	69	·11*	65	·19	100	·20	95	·18	100	·19	90	·17	89
1889	·11	85	·14	82	·14*	74	·19	90	·16	89	·16*	76	·16	84
1890§	·13	100	·17	100	·19	100	·23	110	·20	111	·23	110	·20	105
Lustrum	·12	92	·15	88	·19	100	·21	100	·18	100	·20	95	·19	100
1891	·14	108	·20	118	·17	89	·21	100	·20	111	·23	110	·20	105
1892	·11	85	·16	94	·18	95	·17	81	·20	111	·21	100	·18	95
1893	·08*	62	·19	112	·25†	132	·25	119	·21	117	·24	114	·23†	121
1894	·13	100	·17	100	·16	84	·19	90	·16	89	·22	105	·18	95
1895	·17†	131	·20	118	·22	116	·20	95	·18	100	·21	100	·20	105
Lustrum	·13	100	·18	106	·20	105	·20	95	·19	106	·22	105	·20	105
1896§	·12	92	·16	94	·22	116	·23	110	·21	117	·26	124	·21	111
1897	·16	123	·18	106	·18	95	·21	100	·19	106	·26	124	·20	105
1898	·17†	131	·15	88	·16	84	·23	110	·14*	78	·19	90	·17	89
1899	·11	85	·17	100	·21	111	·25	119	·20	111	·26	124	·22	116
1900	·13	100	·15	88	·16	84	·24	114	·19	106	·22	105	·19	100
Lustrum	·14	108	·16	94	·18	95	·23	110	·19	106	·24	114	·20	105
1901	·15	115	·19	112	·22	116	·27†	129	·18	100	·26	124	·22	116
1902§	·17†	131	·16	94	·17	89	·20	95	·16	89	·18	86	·17	89
1903	·10	77	·12	71	·16	84	·15*	71	·14*	78	·16*	76	·15*	79
1904	·13	100	·21	124	·22	116	·22	105	·17	94	·20	95	·20	105
1905	·13	100	·19	112	·21	111	·21	100	·19	106	·22	105	·20	105
Lustrum	·14	108	·17	100	·19	100	·21	100	·17	94	·20	95	·19	100
25 years average ..	**·13**	—	**·17**	—	**·19**	—	**·21**	—	**·18**	—	**·21**	—	**·19**	—
1906	·12	92	·17	100	·18	95	·22	105	·17	94	·23	110	·19	100
1907	·15	115	·17	100	·18	95	·19	90	·18	100	·21	100	·19	100
1908§	·14	108	·19	112	·21	111	·24	114	·20	111	·27†	129	·22	116
1909	·16	123	·22	129	·21	111	·22	105	·20	111	·25	119	·22	116

YEARS.	6. Scotland, W. Th.-hrs.	Per cent. of av.	7. England, N.W. and North Wales. Th.-hrs.	Per cent. of av.	8. South Wales and England, S.W. Th.-hrs.	Per cent. of av.	9. Ireland, N. Th.-hrs.	Per cent. of av.	10. Ireland, S. Th.-hrs.	Per cent. of av.	Means for Western Districts Th.-hrs.	Per cent. of av.	11. English Channel. Th.-hrs.	Per cent. of av.	Means for Districts 1–10 combined. Th.-hrs.	Per cent. of av.
	Western Districts.															
1881	·16	100	·16	100	·23	110	·23†	128	·23	110	·20	111	·29	116	·20	105
1882	·13	81	·13*	81	·18	86	·18	100	·21	100	·17	94	·20*	80	·17	89
1883	·19	119	·16	100	·19	90	·17	94	·21	100	·18	100	·20*	80	·20	105
1884	·15	94	·14	88	·15*	71	·14*	78	·18	86	·15*	83	·24	96	·16*	84
1885	·17	106	·15	94	·21	100	·19	106	·21	100	·19	106	·21	84	·19	100
Lustrum	·16	100	·15	94	·19	90	·18	100	·21	100	·18	100	·23	92	·18	95
1886§	·20†	125	·19	119	·21	100	·18	100	·21	100	·19	106	·28	112	·20	105
1887	·16	100	·15	94	·23	110	·15	83	·21	100	·18	100	·27	108	·19	100
1888	·12*	75	·13*	81	·19	90	·16	89	·18	86	·16	89	·28	112	·17	89
1889	·14	88	·13*	81	·17	81	·16	89	·19	90	·16	89	·22	88	·16*	84
1890§	·15	94	·16	100	·22	105	·18	100	·22	105	·18	100	·29	116	·19	100
Lustrum	·15	94	·15	94	·20	95	·17	94	·20	95	·17	94	·27	108	·18	95
1891	·18	113	·16	100	·22	105	·22	122	·25	119	·21	117	·34†	136	·21	111
1892	·17	106	·19	119	·23	110	·19	106	·23	110	·20	111	·23	92	·19	100
1893	·19	119	·16	100	·23	110	·21	117	·22	105	·20	111	·28	112	·22†	116
1894	·15	94	·15	94	·21	100	·18	100	·21	100	·18	100	·25	100	·18	95
1895	·19	119	·16	100	·20	95	·23†	128	·26†	124	·21	117	·25	100	·21	111
Lustrum	·18	113	·16	100	·22	105	·21	117	·23	110	·20	111	·27	108	·20	105
1896§	·19	119	·17	106	·25	119	·23†	128	·25	119	·22	122	·26	104	·22†	116
1897	·17	106	·20	125	·20	95	·18	100	·25	119	·20	111	·27	108	·20	105
1898	·14	88	·16	100	·20	95	·16	89	·21	100	·17	94	·25	100	·17	89
1899	·15	94	·22	138	·22	105	·19	106	·24	114	·20	111	·28	112	·21	111
1900	·15	94	·17	106	·22	105	·17	94	·20	95	·18	100	·23	92	·19	100
Lustrum	·16	100	·18	113	·22	105	·19	106	·23	110	·20	111	·26	104	·20	105
1901	·17	106	·20	125	·21	100	·21	117	·22	105	·20	111	·27	108	·21	111
1902§	·14	88	·18	113	·19	90	·18	100	·18	86	·17	94	·24	96	·17	89
1903	·13	81	·15	94	·18	86	·16	89	·20	95	·16	89	·20*	80	·16*	84
1904	·17	106	·19	119	·18	86	·15	83	·17*	81	·17	94	·24	96	·19	100
1905	·20†	125	·20	125	·26†	124	·19	106	·22	105	·21	117	·26	104	·21	111
Lustrum	·16	100	·18	113	·20	95	·18	100	·20	95	·18	100	·24	96	·19	100
25 years average ..	**·16**	—	**·16**	—	**·21**	—	**·18**	—	**·21**	—	**·18**	—	**·25**	—	**·19**	—
1906	·15	94	·17	106	·22	105	·18	100	·20	95	·18	100	·24	96	·19	100
1907	·14	88	·18	113	·20	95	·18	100	·18	86	·18	100	·26	104	·19	100
1908§	·14	88	·25†	156	·26†	124	·20	111	·19	91	·21	117	·33	132	·22†	116
1909	·20†	125	·21	131	·25	119	·22	122	·26†	124	·23†	128	·24	96	·22†	116

§ Quarter containing 14 weeks.

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Thirty-second Year.
Vol. XXVI. [*New Series.*] } APPENDIX I. VALUES FOR THE WHOLE YEAR, 1909. *Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-TWO YEARS, 1878–1909.

TABLE I.—RAINFALL.—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 25 YEARS, 1881–1905.

YEARS.	0. Scotland, N.			Eastern Districts.																		Western Districts.																		11. English Channel.			Means for Districts 1-10 combined.		
				1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Means for Eastern Districts.			6. Scotland, W.			7. England, N.W. and North Wales.			8. South Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Means for Western Districts.								
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%		Ins.	%
1878	235	*42·8*	*82*	178	*33·5*	*108*	195	31·3†	126	211	*28·0*	*120*	193	30·1	114	181	29·2	108	192	30·4	115	187	*44·1*	*92*	202	35·4	102	207	40·2	104	229	37·2	97	218	40·2	100	209	39·4	99	243	40·6†	125	201	34·9	105
1879	217	36·0*	69	198	*37·4*	*121*	203	26·0	105	227	30·5†	130	199	29·7	113	197	32·2	120	205	31·2	118	199	*42·8*	*89*	195	34·1	98	207	39·8	98	228	35·2	108	208	34·9	105	228	35·2	108	208	34·9	105
1880§..	210	*42·7*	*82*	184	*33·2*	*107*	180	30·2	122	192	*27·7*	*118*	176	33·7	128	175	32·4	120	181	31·3	118	198	*41·9*	*87*	179	36·4	105	190	36·4	94	216	35·4	92	198	40·9	102	196	38·1	95	223	36·8	113	189	34·7	104
1881	222	*44·8*	*86*	199	*37·0*	*120*	197	28·2	114	193	*25·8*	*110*	177	27·7	105	171	28·6	106	187	29·5	111	206	*47·6*	*99*	190	40·1	115	195	39·3	102	234	36·9	96	209	40·7	101	207	40·9	102	208	33·9	104	197	35·2	106
1882	254	*50·2*	*96*	223	40·4†	131	207	30·4	123	197	*29·6*	*127*	210	36·5†	139	197	31·4	117	207	33·7	127	233	*54·0*	*113*	222	43·1	124	235	50·4†	131	253	41·6	109	240	45·9	114	237	47·0	118	239	39·5	121	222	40·4	121
1883	247	*50·0*	*96*	197	*32·8*	*106*	196	25·9	105	199	*27·8*	*119*	190	30·8	117	183	26·5	99	193	28·8	109	221	*53·2*	*111*	197	35·4	102	217	38·5	100	247	40·0	104	218	45·3	112	220	42·5	106	230	34·5	106	207	35·7	107
1884	235	*54·4*	*104*	191	*29·3*	*95*	162	19·9*	80	163	*20·9*	*89*	166	22·4	85	165	23·3	87	169	23·2	88	215	*53·5*	*111*	188	33·0	95	203	35·9	93	235	41·4	108	207	36·9	92	210	40·1	100	215	29·9	92	190	31·7	95
1885	246	*46·4*	*89*	182	*27·1*	*88*	180	23·2	94	182	*26·1*	*119*	185	27·4	104	171	27·4	102	180	26·2	99	203	*44·6*	*93*	191	31·3	90	205	39·3	102	212	33·3	87	209	39·6	98	204	37·6	94	219	31·2	96	192	31·9	96
Lustrum	241	*49·2*	*94*	198	*33·3*	*108*	188	25·5	103	187	*26·0*	*111*	186	29·0	110	177	27·4	102	187	28·2	106	216	*50·6*	*105*	198	36·6	105	211	40·7	105	236	38·6	101	217	41·7	104	216	41·6	104	222	33·8	104	202	34·9	105
1886§..	263	*51·7*	*99*	204	*31·7*	*103*	199	29·2	118	193	*25·0*	*107*	202	33·1	126	195	32·9	122	199	30·3	114	218	48·1	100	214	43·0	124	218	46·5	120	234	42·8	112	227	46·3	115	222	45·3	113	251	38·6	118	211	37·8	114
1887	241	*45·6*	*87*	183	24·4*	79	174	20·6	83	166	18·2*	78	148	19·2*	73	150	21·5*	80	164	20·8*	78	181	39·0	81	163	24·9*	72	159	28·3*	73	188	32·3*	84	159	28·5*	71	170	30·6*	77	181	26·2*	80	167	25·7*	77
1888	242	*47·8*	*92*	208	30·4	98	187	25·6	103	188	*23·2*	*99*	175	26·8	102	184	28·5	106	188	26·9	102	200	46·5	97	200	31·1	89	208	38·4	99	217	36·9	96	197	39·9	99	204	38·6	97	228	31·9	98	196	32·8	99
1889	245	*46·1*	*88*	197	26·0	84	182	24·1	97	189	*25·2*	*108*	175	26·8	102	175	25·6	95	184	25·5	96	211	42·4	88	197	32·4	93	197	35·9	93	232	38·5	101	210	37·6	93	209	37·4	94	210	30·2	93	197	31·5	95
1890§..	264	*60·3*	*116*	222	32·9	106	193	25·0	101	184	*21·6*	*92*	182	22·0	84	180	25·4	94	192	25·4	96	224	52·8	110	210	35·0	101	218	38·1	99	246	38·8	101	229	41·4	103	225	41·2	103	216	33·1	102	209	33·3	100
Lustrum	251	*50·3*	*96*	203	29·0	94	187	24·9	100	184	*22·6*	*97*	176	25·6	97	177	26·8	100	185	25·8	97	207	45·8	96	197	33·3	96	200	37·4	97	223	37·9	99	204	38·7	96	206	38·6	97	217	32·0	98	196	32·2	97
1891	242	52·8	101	184	30·9	100	181	24·6	99	197	*25·6*	*109*	192	30·1	114	190	33·2	123	189	28·9	109	205	49·9	104	186	38·3	110	200	45·1	117	225	35·3	92	204	41·5	103	204	42·0	105	201	36·7	113	197	35·5	107
1892	253	49·8	95	201	28·2	91	197	25·6	103	180	*25·9*	*111*	176	23·1	88	160	24·4	91	183	25·4	96	206	46·5	97	205	37·2	107	192	31·1	81	232	38·0	99	203	40·1	100	208	38·6	97	195	29·2	99	196	32·0	96
1893	252	57·9	111	199	27·3	88	173	20·4	82	171	*20·0*	*86*	164	20·8	79	162	23·5	87	174	22·4	85	205	43·0	90	191	31·4	90	173	33·7	87	217	34·0	89	189	32·6	81	195	34·9	87	185	28·4	87	185	28·7	86
1894	234	53·5	102	201	33·9	110	208	25·8	104	205	*25·5*	*109*	196	27·4	104	196	32·1	119	201	28·9	109	219	49·6	103	213	36·3	104	214	44·9	116	234	38·0	99	212	43·5	108	218	42·5	106	221	33·6	118	210	35·7	107
1895	237	49·3	94	195	31·5	102	189	27·7	112	165	*23·2*	*99*	163	24·7	94	160	24·9	93	174	26·4	100	196	38·3*	80	183	32·3	93	177	37·3	97	218	35·6	93	192	38·0	94	193	36·3	91	199	31·9	98	184	31·4	94
Lustrum	244	52·7	101	196	30·4	98	190	24·8	100	184	*24·0*	*103*	178	25·2	96	174	27·6	103	184	26·4	100	206	45·5	95	196	35·1	101	191	38·4	99	225	36·2	95	200	39·1	97	204	38·9	97	200	33·0	101	194	32·7	98
1896§..	252	56·2	108	213	29·5	95	196	25·3	102	190	*23·8*	*102*	184	24·6	94	173	25·8	96	191	25·7	97	216	45·4	95	200	35·2	101	186	33·7	87	226	39·2	102	199	36·8	91	205	38·1	95	208	30·2	93	198	31·9	96
1897	231	46·6	89	204	30·3	98	183	24·4	98	174	*22·1*	*94*	178	28·0	106	168	26·7	99	181	26·3	99	222	*47·0*	*98*	199	37·1	107	206	43·7	113	234	41·1	107	219	47·8	119	216	43·3	108	218	35·9	110	199	34·8	105
1898	262	66·1†	127	204	29·7	96	176	21·9	88	156	*19·5*	*83*	162	22·0	84	150	21·7	81	170	23·0	87	228	*46·5*	*97*	202	33·8	97	188	35·6	92	245	37·8	99	202	39·4	98	213	38·6	97	208	28·4	87	192	30·8	92
1899	233	53·3	104	200	33·0	107	173	24·3	98	158	*21·9*	*94*	154	25·2	96	137	25·0	93	164	25·9	98	221	*49·0*	*102*	187	35·6	102	175	38·7	100	238	38·4	100	191	42·7	106	200	40·9	102	169	29·1	83	182	33·4	100
1900	260	56·9	109	224	37·2	120	188	29·2	118	189	*23·4*	*100*	183	28·5	108	175	27·3	102	192	29·1	110	237	*56·9*	*119*	202	38·7	111	213	44·5	115	242	41·6	109	217	48·1	120	222	46·0	115	219	33·9	104	207	37·6	113
Lustrum	248	55·8	107	209	31·9	103	183	25·0	101	173	*22·0*	*94*	172	25·7	98	161	25·3	94	180	26·0	98	225	*49·0*	*102*	198	36·1	104	194	39·2	102	235	39·6	103	206	43·0	107	212	41·3	103	204	31·5	97	196	33·7	101
1901	237	44·3	85	198	28·5	92	168	24·6	99	158	*20·5*	*88*	155	25·4	97	146	24·2	90	165	24·6	93	210	*45·4*	*95*	185	30·0	86	171	34·9	90	230	38·5	100	191	36·9	92	197	37·1	93	197	31·7	97	181	30·9	93
1902§..	254	48·8	93	216	27·2	88	185	21·9	88	179	*20·9*	*89*	181	24·9	95	179	25·9	96	188	24·1	91	229	*48·7*	*101*	213	29·3	84	198	34·3	89	250	37·1	97	212	37·2	92	220	37·3	93	215	29·2	90	204	30·7	92
1903	257	65·7	126	232	39·1	127	197	31·0	125	178	*30·1*	*129*	194	34·4	131	197	35·8†	133	200	34·1†	129	241	64·3†	134	206	44·4†	128	221	48·6	126	265	47·2†	123	242	48·7†	121	239	50·6†	127	241	38·7	119	220	42·4†	127
1904	253	*53·0*	*102*	201	26·0	84	164	20·3	82	164	*20·0*	*86*	173	23·7	90	177	26·3	98	178	23·3	88	206	48·1	100	192	31·3	90	195	37·3	97	250	38·5	101	216	38·8	96	212	38·8	97	228	36·0	110	195	31·1	93
1905	275	*55·1*	*106*	218	28·5	92	169	19·9*	80	170	*20·7*	*88*	174	21·6	82	170	25·4	94	180	23·2	88	206	45·1	94	192	30·0	86	185	31·7	82	238	34·9	91	213	33·6	83	207	35·1	88	213	29·1	89	194	29·2	88
Lustrum	255	53·4	102	213	29·9	97	177	23·5	95	170	*22·4*	*96*	175	26·0	99	174	27·5	102	182	25·9	98	218	50·3	105	202	33·0	95	194	37·4	97	247	39·2	102	215	39·0	97	215	39·7	99	219	32·9	101	199	32·8	99
25 years average ..	**248**	**52·2**	—	**204**	**30·9**	—	**185**	**24·8**	—	**180**	**23·4**	—	**178**	**26·3**	—	**172**	**26·9**	—	**184**	**26·5**	—	**214**	**48·2**	--	**198**	**34·8**	—	**198**	**38·6**	—	**233**	**38·3**	--	**208**	**49·3**	—	**210**	**40·0**	—	**213**	**32·6**	—	**197**	**33·3**	—
1906	262	*55·2*	*106*	212	35·5	115	188	24·6	99	165	*24·6*	*106*	183	25·3	96	177	27·7	103	185	27·5	104	216	48·3	101	208	37·1	107	203	40·7	105	254	38·1	100	234	35·4	88	223	39·9	100	199	29·5	90	204	33·7	101
1907	267	50·6	97	212	31·9	103	196	24·4	98	182	*21·9*	*94*	194	28·6	109	179	26·7	99	190	26·6	100	228	51·1	106	221	36·7	105	222	41·1	106	251	40·4	105	247	39·0	97	233	41·7	104	197	30·4	93	214	34·1	102
1908§..	258	52·5	101	206	29·0	94	187	20·5	83	184	21·8	93	179	24·6	94	174	24·6	91	188	24·1	91	221	47·8	100	212	36·9	106	197	33·0	85	240	40·9	107	245	37·5	93	223	39·2	98	193	25·2	77	205	31·7	95
1909	250	45·1	86	208	32·7	106	193	27·3	110	201	26·0	111	191	27·9	106	186	32·1	119	196	29·2	110	200	47·4	98	203	37·9	109	201	37·5	97	235	35·9	94	221	34·7	86	212	38·7	97	191	30·4	93	204	33·9	102

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 25 years average in each district is shown in clarendon type. * Minimum and † Maximum values, 1878–1909. § Year containing 53 weeks.

Meteorological Office, 63, Victoria Street, London, S.W.
February 26th, 1910.

W. N. SHAW,
Director.

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 25 YEARS, 1881–1905.

YEARS.	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
1878 ..	*46·0*	+ *0·5*	*46·1*	+ *0·3*	47·7	+ 0·4	48·7	+ 0·5	49·1	+ 1·2	49·9	+ 0·3	48·3	+ 0·5	*48·3*	+ *1·0*	49·0	+ 0·8	50·7	+ 1·2	48·8	+ 0·8	50·4	+ 0·9	49·4	+ 0·8	51·9	- 0·6	48·9	+ 0·7
1879 ..	43·9*	- 1·6	43·2*	- 2·6	44·8*	- 2·5	45·6*	- 2·6	45·6*	- 2·3	46·7*	- 2·9	45·2*	- 2·6	45·2*	- 2·1	45·7*	- 2·5	48·2*	- 1·3	45·9*	- 2·1	48·1*	- 1,4	46·6*	- 1·9	49·4*	- 2·5	45·9*	- 2·3
1880§ ..	*46·1*	+ *0·6*	*46·0*	+ *0·2*	47·5	+ 0·2	48·6	+ 0·4	48·2	+ 0·3	49·8	+ 0·2	48·0	+ 0·2	*47·6*	+ *0·3*	48·4	+ 0·2	51·0	+ 1·5	48·4	+ 0·4	50·1	+ 0·6	49·1	+ 0·6	51·3	- 0·6	48·6	+ 0·4
1881 ..	*44·2*	- *1·5*	*44·2*	- *1·6*	46·0	- 1·3	47·5	- 0·7	47·2	- 0·7	48·9	- 0·7	46·8	- 1·0	*46·0*	- *1·3*	47·1	- 1·1	49·2	- 0·3	47·2	- 0·8	48·8	- 0·7	47·7	- 0·8	51·6	- 0·3	47·3	- 0·9
1882 ..	*46·3*	+ *0·8*	*46·3*	+ *0·5*	48·2	+ 0·9	48·9	+ 0·7	48·5	+ 0·6	50·2	+ 0·6	48·4	+ 0·6	*47·9*	+ *0·6*	48·8	+ 0·6	50·1	+ 0·6	48·5	+ 0·5	49·6	+ 0·1	49·0	+ 0·5	51·5	- 0·3	48·7	+ 0·5
1883 ..	*45·6*	*0·0*	*45·9*	+ *0·1*	47·2	- 0·1	48·3	+ 0·1	48·0	+ 0·1	49·5	- 0·1	47·8	*0·0*	*47·2*	- *0·1*	48·1	- 0·1	49·4	- 0·1	47·8	- 0·2	49·2	- 0·3	48·3	- 0·3	51·3	- 0·6	48·1	- 0·1
1884 ..	*46·1*	+ *0·6*	*46·7*	+ *0·9*	48·5	+ 1·2	49·6	+ 1·4	49·3	+ 1·4	50·8	+ 1·2	49·0	+ 1·2	*48·2*	+ *0·9*	49·1	+ 0·9	50·5	+ 1·0	48·6	+ 0·6	50·0	+ 0·5	49·3	+ 0·8	52·3	+ 0·4	49·2	+ 1·0
1885 ..	*44·4*	- *1·1*	*44·9*	- *0·9*	46·6	- 0·7	47·3	- 0·9	47·1	- 0·8	48·8	- 0·8	46·9	- 0·9	*46·0*	- *1·3*	46·7	- 1·5	48·5	- 1·0	47·0	- 1·0	48·4	- 1·1	47·3	- 1·2	50·5	- 1·4	47·1	- 1·1
Lustrum	*45·3*	- *0·2*	*45·6*	- *0·2*	47·3	0·0	48·3	+ 0·1	48·0	+ 0·1	49·6	0·0	47·8	0·0	*47·1*	- *0·2*	48·0	- 0·2	49·5	0·0	47·8	- 0·2	49·2	- 0·3	48·3	- 0·2	51·4	- 0·5	48·1	- 0·1
1886§ ..	*44·4*	- *1·1*	*44·6*	- *1·2*	46·2	- 1·1	47·3	- 0·9	47·2	- 0·7	48·8	- 0·8	46·8	- 1·0	*46·0*	- *1·3*	46·9	- 1·3	48·6	- 0·9	46·8	- 1·2	48·5	- 1·0	47·4	- 1·1	51·0	- 0·9	47·2	- 1·0
1887 ..	*45·0*	- *0·5*	45·9	+ 0·1	46·4	- 0·9	46·9	- 1·3	46·8	- 1·1	47·9	- 1·7	46·8	- 1·0	46·5	- 0·8	47·1	- 1·1	48·4	- 1·1	47·8	- 0·2	49·0	- 0·5	47·8	- 0·7	50·7	- 1·2	47·3	- 0·9
1888 ..	*44·4*	- *1·1*	44·9	- 0·9	45·9	- 1·4	46·8	- 1·4	46·5	- 1·4	48·0	- 1·6	46·4	- 1·4	46·5	- 0·8	46·9	- 1·3	48·1*	- 1·4	47·3	- 0·7	48·7	- 0·8	47·5	- 1·0	50·6	- 1·3	47·0	- 1·2
1889 ..	*46·2*	+ *0·7*	46·4	+ 0·6	47·2	- 0·1	47·7	- 0·5	47·8	- 0·1	49·3	- 0·3	47·7	- 0·1	47·8	+ 0·5	48·1	- 0·1	49·2	- 0·3	48·3	+ 0·3	49·6	+ 0·1	48·6	+ 0·1	51·7	- 0·2	48·2	0·0
1890§ ..	*46·2*	+ *0·7*	46·3	+ 0·5	47·4	+ 0·1	47·5	- 0·7	47·3	- 0·6	48·9	- 0·7	47·5	- 0·3	47·5	+ 0·2	47·9	- 0·3	49·0	- 0·5	48·2	+ 0·2	49·5	0·0	48·4	- 0·1	51·1	- 0·8	48·0	- 0·2
Lustrum	*45·2*	- *0·3*	*45·6*	- *0·1*	46·6	- 0·7	47·2	- 1·0	47·1	- 0·8	48·6	- 1·0	47·0	- 0·8	*46·9*	- *0·4*	47·4	- 0·8	48·7	- 0·8	47·7	- 0·3	49·1	- 0·4	48·0	- 0·5	51·0	- 0·9	47·5	- 0·7
1891 ..	45·3	- 0·2	45·4	- 0·4	46·3	- 1·0	47·3	- 0·9	47·0	- 0·9	48·7	- 0·9	46·9	- 0·9	47·1	- 0·2	47·6	- 0·6	48·6	- 0·9	47·6	- 0·4	48·3	- 0·7	47·9	- 0·6	51·1	- 0·8	47·4	- 0·8
1892 ..	43·6	- 1·9	44·0	- 1·8	45·5	- 1·8	46·6	- 1·6	46·1	- 1·8	48·2	- 1·4	46·1	- 1·7	45·6	- 1·7	46·6	- 1·6	48·2	- 1·3	46·8	- 1·2	48·3	- 1·2	47·1	- 1·4	51·2	- 0·7	46·6	- 1·6
1893 ..	46·5	+ 1·0	47·0	+ 1·2	48·5	+ 1·2	49·4	+ 1·2	49·6†	+ 1·7	51·0	+ 1·4	49·1	+ 1·3	48·7	+ 1·4	50·1†	+ 1·9	51·2†	+ 1·7	49·6†	+ 1·6	51·0	+ 1·5	50·1	+ 1·6	53·7	+ 1·8	49·6	+ 1·4
1894 ..	46·3	+ 0·8	46·0	+ 0·2	47·4	+ 0·1	48·6	+ 0·4	48·4	+ 0·5	50·2	+ 0·6	48·1	+ 0·3	47·8	+ 0·5	49·1	+ 0·9	49·9	+ 0·4	48·3	+ 0·3	49·8	+ 0·3	49·0	+ 0·5	52·5	+ 0·6	48·6	+ 0·4
1895 ..	44·8	- 0·7	44·8	- 1·0	46·8	- 0·5	47·6	- 0·6	47·2	- 0·7	48·9	- 0·7	47·1	- 0·7	46·4	- 0·9	47·5	- 0·7	48·8	- 0·7	47·1	- 0·9	48·6	- 0·9	47·7	- 0·8	51·6	- 0·5	47·4	- 0·8
Lustrum	45·3	- 0·2	45·4	- 0·4	46·9	- 0·4	47·9	- 0·3	47·7	- 0·2	49·4	- 0·2	47·5	- 0·3	47·1	- 0·2	48·2	0·0	49·3	- 0·2	47·9	- 0·1	49·3	- 0·2	48·4	- 0·1	52·0	+ 0·1	48·0	- 0·2
1896§ ..	46·3	+ 0·8	46·7	+ 0·9	47·9	+ 0·6	48·5	+ 0·3	48·3	+ 0·4	50·1	+ 0·5	48·3	+ 0·5	48·0	+ 0·7	49·0	+ 0·8	50·1	+ 0·6	48·5	+ 0·5	50·1	+ 0·6	49·1	+ 0·6	52·7	+ 0·8	48·7	+ 0·5
1897 ..	45·5	0·0	45·9	+ 0·1	47·7	+ 0·4	48·7	+ 0·5	48·5	+ 0·6	50·7	+ 1·1	48·3	+ 0·5	47·7	+ 0·4	48·9	+ 0·7	50·5	+ 1·0	48·2	+ 0·2	50·3	+ 0·8	49·1	+ 0·6	53·0	+ 1·1	48·7	+ 0·5
1898 ..	46·7†	+ 1·2	47·4†	+ 1·6	49·0†	+ 1·7	49·8†	+ 1·6	49·5	+ 1·6	51·4†	+ 1·8	49·4†	+ 1·6	49·0†	+ 1·7	50·0	+ 1·8	51·2†	+ 1·7	49·5	+ 1·5	51·3†	+ 1·8	50·2†	+ 1·7	53·7	+ 1·6	49·8†	+ 1·6
1899 ..	46·3	+ 0·8	46·3	+ 0·5	48·1	+ 0·8	49·4	+ 1·2	49·0	+ 1·1	51·2	+ 1·6	48·8	+ 1·0	48·1	+ 0·8	49·3	+ 1·1	51·2†	+ 1·7	49·1	+ 1·1	51·0	+ 1·5	49·7	+ 1·2	54·1†	+ 2·2	49·3	+ 1·1
1900 ..	45·7	+ 0·2	45·8	0·0	48·0	+ 0·7	49·3	+ 1·1	48·7	+ 0·8	50·4	+ 0·8	48·4	+ 0·6	47·6	+ 0·3	48·7	+ 0·5	50·0	+ 0·5	48·2	+ 0·2	49·6	+ 0·1	48·8	+ 0·3	53·2	+ 1·3	48·6	+ 0·4
Lustrum	46·1	+ 0·6	46·4	+ 0·6	48·1	+ 0·8	49·1	+ 0·9	48·8	+ 0·9	50·8	+ 1·2	48·6	+ 0·8	48·1	+ 0·8	49·2	+ 1·0	50·6	+ 1·1	48·7	+ 0·7	50·4	+ 0·9	49·4	+ 0·9	53·3	+ 1·4	49·0	+ 0·8
1901 ..	46·1	+ 0·6	46·1	+ 0·3	47·7	+ 0·4	48·3	+ 0·1	47·9	0·0	49·4	- 0·2	47·9	+ 0·1	47·5	+ 0·2	48·4	+ 0·2	49·5	0·0	47·9	- 0·1	49·3	- 0·2	48·5	0·0	52·2	+ 0·3	48·2	0·0
1902§ ..	45·0	- 0·5	44·9	- 0·9	47·0	- 0·3	48·0	- 0·2	47·5	- 0·4	49·1	- 0·5	47·3	- 0·5	46·9	- 0·4	47·7	- 0·5	49·2	- 0·3	47·8	- 0·2	49·6	+ 0·1	48·3	- 0·2	51·9	0·0	47·8	- 0·4
1903 ..	45·0	- 0·5	45·4	- 0·4	47·5	+ 0·2	49·1	+ 0·9	48·1	+ 0·2	50·0	+ 0·4	48·0	+ 0·2	47·4	+ 0·1	48·4	+ 0·2	50·0	+ 0·5	47·9	- 0·1	49·5	0·0	48·6	+ 0·1	52·3	+ 0·4	48·3	+ 0·1
1904 ..	45·7	+ 0·2	45·7	- 0·1	47·9	+ 0·6	48·9	+ 0·7	47·8	- 0·1	49·5	- 0·1	48·0	+ 0·2	47·3	0·0	48·1	- 0·1	49·7	+ 0·2	47·8	- 0·2	49·6	+ 0·1	48·5	0·0	51·3	- 0·6	48·3	+ 0·1
1905 ..	*46·0*	+ *0·5*	46·3	+ 0·5	48·0	+ 0·7	49·0	+ 0·8	48·1	+ 0·2	49·4	- 0·2	48·2	+ 0·4	47·7	+ 0·4	48·4	+ 0·2	49·2	- 0·3	48·6	+ 0·6	49·9	+ 0·4	48·8	+ 0·3	52·0	+ 0·1	48·5	+ 0·3
Lustrum	*45·6*	+ *0·1*	45·7	- 0·1	47·6	+ 0·3	48·7	+ 0·5	47·9	0·0	49·5	- 0·1	47·9	+ 0·1	47·3	0·0	48·2	0·0	49·5	0·0	48·0	0·0	49·6	+ 0·1	48·5	0·0	51·9	0·0	48·2	0·0
25 yrs Av.	**45·5**	—	**45·8**	—	**47·3**	—	**48·2**	—	**47·9**	—	**49·6**	—	**47·8**	—	**47·3**	—	**48·2**	—	**49·5**	—	**48·0**	—	**49·5**	—	**48·5**	—	**51·9**	—	**48·2**	—
1906 ..	45·6	+ *0·1*	46·5	+ 0·7	48·5	+ 1·2	49·7	+ 1·5	49·0	+ 1·1	50·0	+ 0·4	48·7	+ 0·9	48·0	+ 0·7	48·6	+ 0·4	49·5	0·0	48·1	+ 0·1	49·9	+ 0·4	48·8	+ 0·3	52·3	+ 0·4	48·8	+ 0·6
1907 ..	45·3	- 0·2	45·5	- 0·3	47·4	+ 0·1	48·6	+ 0·4	47·8	- 0·1	49·3	- 0·3	47·7	- 0·1	47·3	0·0	47·8	- 0·4	48·8	- 0·7	47·8	- 0·2	49·3	- 0·2	48·2	- 0·3	51·9	0·0	48·0	- 0·2
1908§ ..	46·3	+ 0·8	46·2	+ 0·4	47·8	+ 0·5	48·6	+ 0·4	48·1	+ 0·2	49·4	- 0·2	48·0	+ 0·2	48·1	+ 0·8	48·3	+ 0·1	49·7	+ 0·2	48·8	+ 0·8	50·2	+ 0·7	49·0	+ 0·5	52·4	+ 0·5	48·5	+ 0·3
1909 ..	44·7	- 0·8	44·8	- 1·0	46·7	- 0·6	47·7	- 0·5	47·0	- 0·9	48·3	- 1·3	46·9	- 0·9	46·3	- 1·0	47·1	- 1·1	48·5	- 1·0	47·6	- 0·4	49·0	- 0·5	47·7	- 0·8	51·6	- 0·3	47·3	- 0·9

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page V, 1908.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, WITH PERCENTAGES OF AVERAGE FOR 25 YEARS, 1881–1905.

YEARS.	0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.	Th.-hrs.	Per cent. of av.
		%		%		%		%		%		%		%		%		%		%		%		%		%		%		%
1881	*1·08*	*97*	*1·28*	*96*	*1·48*	*103*	1·58	100	1·47	105	*1·65*	*103*	1·49	101	1·36	100	1·37	99	*1·68*	*108*	1·38	108	1·50	103	1·46	104	1·97	104	1·48	103
1882	*1·10*	*99*	*1·41*	*106*	*1·58*	*110*	1·54	97	1·38	98	*1·65*	*103*	1·51	103	1·35	99	1·30	94	*1·50*	*96*	1·38	108	1·53	106	1·41	100	1·85	97	1·46	101
1883	*1·12*	*101*	*1·37*	*103*	*1·49*	*103*	1·59	101	1·40	100	1·54	96	1·48	101	1·41	104	1·42	102	*1·49*	*96*	1·26	98	1·46	101	1·41	100	1·88	99	1·45	101
1884	*1·02*	*92*	*1·22*	*92*	*1·37*	*95*	1·50	95	1·29	92	1·37	86	1·35	92	1·21*	89	1·24	89	*1·38*	*88*	1·06*	83	1·27*	88	1·23*	87	1·85	97	1·29	90
1885	*1·09*	*98*	*1·37*	*103*	1·12*	78	1·50	95	1·39	99	1·49	93	1·37	93	1·32	97	1·29	93	*1·49*	*96*	1·24	97	1·49	103	1·37	97	1·88	99	1·37	95
Lustrum	*1·08*	*97*	*1·33*	*100*	*1·41*	*98*	1·54	97	1·39	99	*1·54*	*96*	1·44	98	1·33	98	1·32	95	*1·51*	*97*	1·26	98	1·45	100	1·37	97	1·89	99	1·41	98
1886§	*1·16*	*105*	*1·31*	*99*	*1·33*	*93*	1·53	97	1·27	91	1·52	95	1·39	95	1·23	90	1·25	90	1·36*	88	1·10	86	1·28	88	1·24	88	1·83	96	1·32	92
1887	*0·88*	*79*	1·37	103	*1·53*	*106*	1·70	108	1·55	111	1·68	105	1·57	107	1·48	109	1·52	109	1·84†	118	1·37	107	1·71†	118	1·58†	112	2·12	112	1·58	110
1888	*1·03*	*93*	1·23	92	*1·24*	*86*	1·27*	80	1·17*	84	1·25*	78	1·23*	84	1·28	94	1·20*	86	*1·37*	*88*	1·17	91	1·39	96	1·28	91	1·71*	90	1·26*	88
1889	0·86*	77	1·22	92	*1·27*	*88*	1·33	84	1·22	87	1·30	81	1·27	86	1·29	95	1·24	89	*1·39*	*89*	1·12	88	1·38	95	1·28	91	1·72	91	1·28	89
1890§	1·04	94	*1·29*	*97*	*1·38*	*96*	1·57	99	1·37	98	1·49	93	1·42	97	1·30	96	1·25	90	*1·43*	*92*	1·26	98	1·40	97	1·33	94	1·84	97	1·38	96
Lustrum	*0·99*	*89*	*1·28*	*96*	*1·35*	*94*	1·48	94	1·32	94	1·45	91	1·38	94	1·32	97	1·29	93	*1·48*	*95*	1·20	94	1·43	99	1·34	95	1·84	97	1·36	94
1891	*1·20*	*108*	*1·38*	*104*	*1·36*	*94*	1·44	91	1·35	96	1·56	98	1·42	97	1·37	101	1·26	91	*1·51*	*97*	1·35	105	1·49	103	1·40	99	2·04	107	1·41	98
1892	*1·16*	*105*	*1·41*	*106*	*1·45*	*101*	1·53	97	1·47	105	1·68	105	1·51	103	1·42	104	1·43	103	*1·61*	*103*	1·31	102	1·45	100	1·44	102	1·99	105	1·48	103
1893	*1·04*	*94*	*1·44*	*108*	1·73†	120	1·83	116	1·72†	123	1·88	118	1·72†	117	1·54†	113	1·50	108	*1·82*	*117*	1·38	108	1·53	106	1·55	110	2·30†	121	1·64†	114
1894	*1·19*	*107*	*1·36*	*102*	*1·45*	*101*	1·46	92	1·33	95	1·58	99	1·44	98	1·35	99	*1·29*	*93*	*1·52*	*97*	1·26	98	1·37	94	1·36	96	1·76	93	1·40	97
1895	*1·14*	*103*	*1·43*	*108*	*1·63*	*113*	1·71	108	1·58	113	1·78	111	1·63	111	1·41	104	*1·43*	*103*	*1·72*	*110*	1·36	106	1·51	104	1·49	106	2·03	107	1·56	108
Lustrum	*1·15*	*104*	*1·40*	*105*	*1·52*	*106*	1·59	101	1·49	106	1·70	106	1·54	105	1·42	104	*1·38*	*99*	*1·64*	*105*	1·33	104	1·47	101	1·45	103	2·02	106	1·50	104
1896§	*1·04*	*94*	*1·32*	*99*	*1·40*	*97*	1·51	96	1·35	96	1·61	101	1·43	97	1·35	99	*1·33*	*96*	*1·65*	*106*	1·25	98	1·45	100	1·40	99	1·93	102	1·42	99
1897	1·30†	117	*1·42*	*107*	*1·59*	*110*	1·61	102	1·52	109	1·70	106	1·57	107	1·40	103	1·53	110	*1·54*	*93*	1·30	102	1·44	99	1·44	102	1·75	92	1·51	105
1898	1·23	111	*1·38*	*104*	*1·37*	*95*	1·56	99	1·39	99	1·54	96	1·45	99	1·32	97	1·43	103	*1·62*	*104*	1·30	102	1·49	103	1·43	101	1·97	104	1·44	100
1899	1·21	109	*1·41*	*106*	*1·52*	*106*	1·86†	118	1·63	116	1·98†	124	1·68	114	1·35	99	1·61	116	*1·80*	*115*	1·41	110	1·61	111	1·56	111	2·12	112	1·62	113
1900	1·09	98	*1·22*	*92*	*1·34*	*93*	1·68	106	1·40	100	1·74	109	1·48	101	1·30	96	1·49	107	*1·63*	*104*	1·31	102	1·46	101	1·44	102	1·93	102	1·46	101
Lustrum	1·17	105	*1·35*	*102*	*1·44*	*100*	1·64	104	1·46	104	1·71	107	1·52	103	1·34	99	*1·48*	*106*	*1·65*	*106*	1·31	102	1·49	103	1·45	103	1·94	102	1·49	103
1901	1·27	114	1·46†	110	*1·71*	*119*	1·82	115	1·49	106	*1·77*	*111*	1·65	112	1·53	113	1·68†	121	*1·63*	*104*	1·36	106	1·49	103	1·54	109	1·92	101	1·60	111
1902§	1·10	99	1·13*	85	*1·36*	*94*	1·57	99	1·30	93	*1·49*	*93*	1·37	93	1·23	90	1·44	104	*1·45*	*93*	1·24	97	1·40	97	1·35	96	1·75	92	1·36	94
1903	1·04	94	1·17	88	1·42	99	1·45	92	1·26	90	1·53	96	1·37	93	1·30	96	1·39	100	*1·43*	*92*	1·19	93	1·34	92	1·33	94	1·75	92	1·35	94
1904	1·18	*106	1·28	96	1·45	101	1·66	105	1·39	99	1·62	101	1·48	101	1·32	97	1·44	104	1·54	99	1·24	97	1·36	94	1·38	98	1·83	96	1·43	99
1905	1·14	103	1·37	103	1·52	106	1·64	104	1·42	101	1·60	100	1·51	103	1·50	110	1·49	107	1·58	101	1·42†	111	1·41	97	1·48	105	1·75	92	1·50	104
Lustrum ..	1·15	104	1·28	96	*1·49*	*103*	1·63	103	1·37	98	*1·60*	*100*	1·47	100	1·38	101	1·49	107	*1·52*	*97*	1·29	101	1·40	97	1·42	101	1·80	95	1·45	101
25 years average ..	**1·11**	—	**1·33**	—	**1·44**	—	**1·58**	—	**1·40**	—	**1·60**	—	**1·47**	—	**1·36**	—	**1·39**	—	**1·56**	—	**1·28**	—	**1·45**	—	**1·41**	—	**1·90**	—	**1·44**	—
1906	1·17	105	1·44	108	1·60	111	1·81	115	1·56	111	1·86	116	1·65	112	1·44	106	1·52	109	1·71	110	1·36	106	1·50	103	1·51	107	1·94	102	1·58	110
1907	1·12	101	1·31	98	1·48	103	1·57	99	1·40	100	1·63	102	1·48	101	1·25	92	1·37	99	1·52	97	1·22	95	1·33	92	1·34	95	1·77	93	1·41	98
1908§	1·08	97	1·30	98	1·41	98	1·59	101	1·39	99	1·74	109	1·49	101	1·30	96	1·50	108	1·62	104	1·29	101	1·38	95	1·42	101	1·91	100	1·48	101
1909	1·16	105	1·33	100	1·40	98	1·62	103	1·45	104	1·74	109	1·51	103	1·43	105	1·51	109	1·70	109	1·29	101	1·51	104	1·49	106	1·98	104	1·50	104

§ Year containing 53 weeks.

WEEKLY WEATHER REPORT, 1909.

Thirty-second Year. VOL. XXVI. [*New Series.*] } APPENDIX II.] { RAIN-DAYS, RAINFALL, ACCUMULATED TEMPERATURE AND SUNSHINE. [*Price* 1*s.*

TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF RAIN-DAYS IN EACH DISTRICT DURING THE YEAR 1909.

1909.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1–10 combined.	
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.
		Numbers of Rain-days—1909.																													
	1909.																														
1	Jan. 3-9 –	6	6	4	4	3	3	4	4	4	4	3	3	3	3	5	5	4	4	5	5	5	5	5	5	5	5	4	4	4	4
2	10-16 –	7	13	6	10	6	9	4	8	6	10	5	8	5	8	7	12	7	11	7	12	7	12	7	12	7	12	7	11	6	10
3	17-23 –	5	18	3	13	2	11	3	11	2	12	2	10	3	11	5	17	3	14	2	14	5	17	4	16	4	16	2	13	4	14
4	24-30 –	5	23	2	15	1	12	2	13	1	13	1	11	1	12	3	20	2	16	1	15	4	21	3	19	3	19	1	14	2	16
5	Jan. 31-Feb. 6	6	29	4	19	3	15	4	17	2	15	2	13	3	15	5	25	4	20	3	18	6	27	3	22	4	23	4	18	4	20
6	Feb. 7-13 –	5	34	3	22	3	18	3	20	3	18	3	16	3	18	3	28	3	23	3	21	4	31	4	26	3	26	3	21	3	23
7	14-20 –	3	37	2	24	1	19	2	22	1	19	1	17	1	19	2	30	1	24	1	22	2	33	2	28	2	28	1	22	1	24
8	21-27 –	3	40	3	27	2	21	3	25	2	21	3	20	3	22	2	32	2	26	1	23	4	37	4	32	2	30	2	24	3	27
9	Feb. 28-Mar. 6	5	45	4	31	5	26	5	30	4	25	5	25	4	26	3	35	5	31	5	28	6	43	5	37	5	35	6	30	4	31
10	Mar. 7-13 –	6	51	6	37	7	33	5	35	5	30	5	30	6	32	3	38	3	34	6	34	5	48	5	42	4	39	7	37	5	36
11	14-20 –	5	56	5	42	4	37	6	41	4	34	5	35	5	37	4	42	5	39	6	40	5	53	6	48	5	44	7	44	5	41
12	21-27 –	4	60	4	46	5	42	4	45	5	39	6	41	5	42	3	45	4	43	6	46	4	57	6	54	5	49	6	50	5	46
13	28-Apr. 3	2	62	5	51	3	45	4	49	3	42	4	45	4	46	5	50	5	48	5	51	5	62	6	60	5	54	5	55	4	50
14	April 4-10 –	2	64	1	52	0	45	0	49	0	42	0	45	0	46	1	51	0	48	0	51	1	63	2	62	1	55	0	55	1	51
15	11-17 –	6	70	6	58	5	50	4	53	4	46	4	49	5	51	6	57	6	54	5	56	6	69	6	68	6	61	3	58	6	57
16	18-24 –	5	75	4	62	4	54	3	56	4	50	4	53	4	55	4	61	4	58	5	61	6	75	6	74	5	66	5	63	5	62
17	25-May 1	6	81	7	69	7	61	6	62	6	56	6	59	7	62	5	66	6	64	6	67	6	81	6	80	6	72	5	68	6	68
18	May 2-8 –	2	83	1	70	0	61	1	63	0	56	0	59	0	62	1	67	0	64	0	67	1	82	1	81	0	72	0	68	0	68
19	9-15 –	5	88	4	74	2	63	2	65	2	58	1	60	2	64	2	69	2	66	0	67	3	85	1	82	2	74	0	68	2	70
20	16-22 –	5	93	4	78	2	65	2	67	1	59	2	62	2	66	4	73	2	68	1	68	4	89	3	85	3	77	1	69	2	72
21	23-29 –	6	99	5	83	5	70	4	71	5	64	4	66	5	71	6	79	5	73	5	73	6	95	5	90	5	82	5	74	5	77
22	May 30-June 5	4	103	4	87	4	74	4	75	4	68	5	71	4	75	4	83	4	77	5	78	4	99	4	94	4	86	4	78	4	81
23	June 6-12 –	2	105	1	88	2	76	4	79	2	70	3	74	2	77	1	84	1	78	2	80	1	100	1	95	1	87	2	80	1	82
24	13-19 –	3	108	3	91	2	78	1	80	2	72	1	75	2	79	3	87	2	80	2	82	3	103	2	97	2	89	0	80	2	84
25	20-26 –	6	114	6	97	7	85	6	86	7	79	6	81	6	85	6	93	6	86	6	88	6	109	6	103	6	95	4	84	6	90
26	27-July 3	3	117	3	100	2	87	3	89	3	82	4	85	3	88	3	96	3	89	2	90	3	112	3	106	3	98	2	86	3	93
27	July 4-10 –	6	123	4	104	5	92	5	94	5	87	5	90	5	93	4	100	5	94	5	95	6	118	5	111	5	103	4	90	5	98
28	11-17 –	5	128	3	107	3	95	4	98	3	90	4	94	3	96	4	104	4	98	4	99	4	122	3	114	4	107	2	92	3	101
29	18-24 –	6	134	4	111	3	98	3	101	3	93	1	95	3	99	5	109	6	104	4	103	6	128	4	118	5	112	4	96	4	105
30	25-31 –	5	139	6	117	6	104	5	106	6	99	5	100	6	105	4	113	6	110	6	109	6	134	6	124	5	117	5	101	6	111
31	Aug. 1-7 –	4	143	3	120	2	106	2	108	1	100	1	101	2	107	3	116	1	111	1	110	2	136	1	125	1	118	0	101	1	112
32	8-14 –	4	147	2	122	2	108	1	109	0	100	0	101	1	108	3	119	1	112	0	110	2	138	1	126	2	120	0	101	2	114
33	15-21 –	5	152	5	127	6	114	5	114	6	106	5	106	5	113	5	124	6	118	6	116	6	144	5	131	6	126	4	105	5	119
34	22-28 –	6	158	5	132	4	118	4	118	4	110	4	110	4	117	5	129	5	123	4	120	5	149	4	135	5	131	3	108	5	124
35	Aug. 29-Sept. 4	6	164	5	137	4	122	5	123	5	115	3	113	5	122	5	134	6	129	4	124	6	155	4	139	5	136	3	111	4	128
36	Sept. 5-11 –	6	170	5	142	5	127	5	128	5	120	6	119	5	127	4	138	3	132	6	130	6	161	5	144	5	141	6	117	5	133
37	12-18 –	2	172	1	143	3	130	4	132	4	124	4	123	3	130	1	139	1	133	1	131	1	162	1	145	1	142	3	120	2	135
38	19-25 –	4	176	6	149	4	134	3	135	4	128	4	127	4	134	3	142	3	136	2	133	3	165	4	149	3	145	2	122	4	139
39	26-Oct. 2	3	179	3	152	4	138	5	140	5	133	5	132	5	139	4	146	5	141	5	138	5	170	6	155	5	150	4	126	5	144
40	Oct. 3-9 –	6	185	5	157	5	143	5	145	6	139	5	137	5	144	6	152	6	147	6	144	6	176	7	162	6	156	6	132	6	150
41	10-16 –	7	192	7	164	6	149	5	150	6	145	6	143	6	150	7	159	7	154	7	151	6	182	7	169	7	163	7	139	7	157
42	17-23 –	7	199	6	170	6	155	5	155	6	151	5	148	6	156	6	165	6	160	7	158	6	188	7	176	7	170	5	144	6	163
43	24-30 –	4	203	4	174	4	159	6	161	4	155	5	153	5	161	2	167	3	163	5	163	4	192	4	180	4	174	6	150	5	168
44	Oct. 31-Nov. 6	5	208	3	177	3	162	3	164	3	158	2	155	3	164	3	170	4	167	3	166	4	196	4	184	4	178	3	153	3	171
45	Nov. 7-13 –	6	214	4	181	2	164	3	167	2	160	3	158	3	167	4	174	4	171	3	169	6	202	5	189	4	182	4	157	4	175
46	14-20 –	4	218	2	183	3	167	5	172	3	163	2	160	3	170	1	175	1	172	2	171	1	203	2	191	1	183	3	160	2	177
47	21-27 –	4	222	4	187	3	170	4	176	2	165	1	161	3	173	3	178	4	176	3	174	4	207	4	195	4	187	2	162	4	181
48	Nov. 28-Dec. 4	6	228	5	192	5	175	6	182	7	172	6	167	6	179	6	184	7	183	7	181	7	214	6	201	7	194	7	169	6	187
49	Dec. 5-11 –	6	234	3	195	5	180	6	188	5	177	5	172	5	184	4	188	6	189	5	186	6	220	6	207	5	199	7	176	5	192
50	12-18 –	3	237	4	199	3	183	3	191	4	181	4	176	3	187	1	189	2	191	4	190	2	222	3	210	2	201	3	179	2	194
51	19-25 –	6	243	4	203	5	188	6	197	6	187	6	182	5	192	5	194	7	198	6	196	7	229	6	216	6	207	6	185	5	199
52	Dec. 26-Jan. 1/10	7	250	5	208	5	193	4	201	4	191	4	186	4	196	6	200	5	203	5	201	6	235	5	221	5	212	6	191	5	204

(15472—24.) Wt. 103—466. 450. 3/10. D & S.

TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF RAINFALL IN EACH DISTRICT DURING THE YEAR 1909.

1909.		0. Scotland, N.		Eastern Districts.										Western Districts.												11. English Channel.		Means for Districts 1-10 combined.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.					
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.
	RAINFALL IN INCHES—1909.																												
	1909.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	Jan. 3-9 –	1·38	1·38	0·51	0·51	0·25	0·25	0·31	0·31	0·24	0·24	0·12	0·12	0·29	0·29	0·93	0·93	0·44	0·44	0·30	0·30	0·59	0·59	0·46	0·46	0·54	0·54	0·27	0·27	0·42	0·42
2	10-16 –	2·41	3·79	1·33	1·84	0·43	0·68	0·34	0·65	0·62	0·86	0·65	0·77	0·68	0·97	2·28	3·21	1·35	1·79	1·40	1·70	1·41	2·00	1·23	1·69	1·53	2·07	1·75	2·02	1·10	1·52
3	17-23 –	1·50	5·29	0·68	2·52	0·05	0·73	0·06	0·71	0·12	0·98	0·09	0·86	0·20	1·17	1·10	4·31	0·33	2·12	0·17	1·87	0·93	2·93	0·60	2·29	0·63	2·70	0·15	2·17	0·42	1·94
4	24-30 –	0·57	5·86	0·18	2·70	0·02	0·75	0·09	0·80	0·02	1·00	0·03	0·89	0·07	1·24	0·41	4·72	0·20	2·32	0·04	1·91	0·36	3·29	0·33	2 62	0·27	2·97	0·02	2·19	0·17	2·11
5	Jan. 31-Feb. 6	1·54	7·40	0·74	3·44	0·46	1·21	0·13	0·93	0·13	1·13	0·07	0·96	0·30	1·54	1·80	6·52	0·99	3·31	0·14	2·05	1·20	4·49	0·29	2·91	0·88	3·85	0·11	2·30	0·59	2·70
6	Feb. 7-13 –	0·70	8·10	0·33	3·77	0·36	1·57	0·35	1·28	0·44	1·57	0·33	1·29	0·36	1·90	0·90	7·42	0·57	3·88	0·46	2·51	0·63	5·12	0·98	3·89	0·71	4·56	0·61	2·91	0·53	3·23
7	14-20 –	0·25	8·35	0·05	3·82	0·03	1·60	0·06	1·34	0·01	1·58	0·02	1·31	0·03	1·93	0·11	7·53	0·03	3·91	0·01	2·52	0·07	5·19	0·07	3·96	0·06	4·62	0·01	2·92	0·04	3·27
8	21-27 –	0·13	8·48	0·23	4·05	0·20	1·80	0·17	1·51	0·05	1·63	0·14	1·45	0·16	2·09	0·12	7·65	0·11	4·02	0·04	2·56	0·34	5·53	0·56	4·52	0·23	4·85	0·19	3·11	0·20	3·47
9	Feb. 28-Mar. 6	0·44	8·92	0·80	4·85	1·07	2·87	0·74	2·25	1·30	2·93	1·50	2·95	1·08	3·17	0·44	8·09	0·68	4·70	1·35	3·91	0·72	6·25	0·33	4·85	0·70	5·55	1·15	4·26	0·89	4·36
10	Mar. 7-13 –	0·63	9·55	1·38	6·23	0·78	3·65	0·36	2·61	0·36	3·29	0·43	3·38	0·66	3·83	0·34	8·43	0·19	4·89	0·70	4·61	0·25	6·50	0·37	5·22	0·37	5·92	0·95	5·21	0·52	4·88
11	14-20 –	0·45	10·00	0·56	6·79	0·32	3·97	0·46	3·07	0·26	3·55	0·52	3·90	0·42	4·25	0·65	9·08	0·33	5·22	0·75	5·36	0·73	7·23	0·91	6·13	0·68	6·60	0·80	6·01	0·55	5·43
12	21-27 –	0·24	10·24	0·77	7·56	0·72	4·69	0·60	3·67	0·71	4·26	0·72	4·62	0·71	4·96	0·71	9·79	0·79	6·01	1·53	6·89	0·71	7·94	1·20	7·33	0·99	7·59	1·12	7·13	0·85	6·28
13	28-Apr. 3	0·39	10·63	1·24	8·80	1·11	5·80	0·59	4·26	0·55	4·81	0·63	5·25	0·83	5·79	1·37	11·16	1·19	7·20	0·67	7·56	1·28	9·22	2·55	9·88	1·41	9·00	1·01	8·14	1·12	7·39
14	April 4-10 –	0·07	10·70	0·01	8·81	0·00	5·80	0·00	4·26	0·00	4·81	0·00	5·25	0·00	5·79	0·06	11·22	0·00	7·20	0·00	7·56	0·11	9·33	0·14	10·02	0·06	9·06	0·00	8·14	0·03	7·42
15	11-17 –	1·18	11·88	0·95	9·76	0·53	6·33	0·24	4·50	0·37	5·18	0·20	5·45	0·46	6·25	1·45	12·67	1·15	8·35	0·57	8·13	1·11	10·44	1·24	11·26	1·10	10·16	0·18	8·32	0·78	8·20
16	18-24 –	0·57	12·45	0·82	10·58	0 98	7·31	0·54	5·04	0·93	6·11	0·95	6·40	0·84	7·09	0·99	13·66	1·20	9·55	1·18	9·31	0·73	11·17	0·99	12·25	1·02	11·18	0·58	8·90	0·93	9·13
17	25-May 1	0·78	13·23	1·10	11·68	0·61	7·92	0·74	5·78	0·63	6·74	0·64	7·04	0·74	7·83	0·79	14·45	0·62	10·17	0·80	10·11	0·72	11·89	0·70	12·95	0·73	11·91	0·56	9·46	0·74	9·87
18	May 2-8 –	0·15	13·38	0·03	11·71	0·00	7·92	0·01	5·79	0·00	6·74	0·00	7·04	0·01	7·84	0·05	14·50	0·00	10·17	0·00	10·11	0·06	11·95	0·05	13·00	0·03	11·94	0·00	9·46	0·02	9·89
19	9-15 –	0·62	14·00	0·40	12·11	0·13	8·05	0·12	5·91	0·08	6·82	0·09	7·13	0·16	8·00	0·22	14·72	0·13	10·30	0·00	10·11	0·11	12·06	0·05	13·05	0·10	12·04	0·00	9·46	0·13	10·02
20	16-22 –	0·61	14·61	0·28	12·39	0·10	8·15	0·16	6·07	0·14	6·96	0·18	7·31	0·17	8·17	0·61	15·33	0·09	10·39	0·06	10·17	0·58	12·64	0·49	13·54	0·37	12·41	0·03	9·49	0·27	10·29
21	23-29 –	1·26	15·87	1·15	13·54	0·99	9·14	0·94	7·01	1·10	8·06	1·01	8·32	1·04	9·21	1·29	16·62	0·98	11·37	1·36	11·53	0·81	13·45	1·13	14·67	1·11	13·52	0·58	10·07	1·08	11·37
22	May 30-June 5	0·56	16·43	0·72	14·26	0·21	9·35	1·12	8·03	0·75	8·81	1·58	9·90	0·88	10·09	0·90	17·52	0·56	11·93	0·68	12·51	0·58	14·03	0·82	15·49	0·77	14·29	1·99	12·06	0·82	12·19
23	June 6-12 –	0·04	16·47	0·06	14·32	0·09	9·44	0·39	8·52	0·26	9·07	0·34	10·24	0·23	10·32	0·02	17·54	0·07	12·00	0·30	12·81	0·03	14·06	0·06	15·55	0·10	14·39	0·11	12·17	0·16	12·35
24	13-19 –	0·26	16·73	0·24	14·56	0·09	9·53	0·04	8·56	0·09	9·16	0·08	10·32	0·11	10·43	0·25	17·79	0·17	12·17	0·19	13·00	0·23	14·29	0·08	15·63	0·18	14·57	0·00	12·17	0·15	12·50
25	20-26 –	1·10	17·83	1·17	15·73	1·81	11·34	1·31	9·87	1·79	10·95	1·27	11·59	1·47	11·90	2·13	19·92	1·48	13·65	1·36	14·36	1·48	15·77	1·40	17·03	1·57	16·14	0·81	12·98	1·52	14·02
26	27-July 3	0·32	18·15	0·20	15·93	0·21	11·55	0·32	10·19	0·26	11·21	0·47	12·06	0·29	12·19	0·59	20·51	0·47	14·12	0·21	14·57	0·55	16·32	0·22	17·25	0·41	16·55	0·13	13·11	0·35	14·37
27	July 4-10 –	0·90	19·05	0·84	16·77	0·79	12·34	0·93	11·12	0·75	11·96	0·84	12·90	0·83	13·02	0·80	21·31	0·88	15·00	0·81	15·38	0·81	17·13	0·81	18·06	0·82	17·37	0·90	14·01	0·83	15·20
28	11-17 –	0·58	19·63	0·35	17·12	0·56	12·90	0·50	11·62	0·45	12·41	0·46	13·36	0·46	13·48	0·91	22·22	0·69	15·69	0·26	15·64	0·50	17·63	0·14	18·20	0·50	17·87	0·03	14·04	0·48	15·68
29	18-24 –	1·41	21·04	0·44	17·56	0·29	13·19	0·11	11·73	0·28	12·69	0·10	13·46	0·21	13·72	1·51	23·73	1·12	16·81	0·45	16·09	0·68	18·31	0·87	19·07	0·93	18·80	0·10	14·14	0·58	16·26
30	25-31 –	0·67	21·71	1·47	19·03	1·19	14·38	1·28	13·01	1·47	14·16	1·04	14·50	1·29	15·01	1·31	25·04	1·51	18·32	1·54	17·63	0·82	19·13	0·73	19·80	1·18	19·98	0·54	14·68	1·23	17·49
31	Aug. 1-7 –	0·45	22·16	0·51	19·54	0·85	15·23	0·62	13·63	0·42	14·58	0·09	14·59	0·50	15·51	0·54	25·58	0·22	18·54	0·19	17·82	0·22	19·35	0·02	19·82	0·24	20·22	0·00	14·68	0·37	17·86
32	8-14 –	0·59	22·75	0·19	19·73	0·08	15·31	0·01	13·64	0·00	14·58	0·00	14·59	0·06	15·57	0·61	26·19	0·09	18·63	0·00	17·82	0·09	19·44	0·03	19·85	0·16	20·38	0·00	14·68	0·11	17·97
33	15-21 –	1·27	24·02	0·40	20·13	1·88	17·19	0·81	14·45	1·56	16·14	1·34	15·93	1·20	16·77	0·79	26·98	1·56	20·19	1·31	19·13	0·48	19·92	0·35	20·20	0·90	21·28	0·69	15·37	1·05	19·02
34	22-28 –	0·65	24·67	0·80	20·93	0·44	17·63	0·46	14·91	0·35	16·49	1·10	17·03	0·63	17·40	1·32	28·30	0·58	20·77	0·69	19·82	1·05	20·97	0·30	20·50	0·79	22·07	0·37	15·74	0·71	19·73
35	Aug. 29-Sept. 4	0·89	25·56	0·53	21·46	0·37	18·00	0·37	15·28	0·51	17·00	0·34	17·37	0·42	17·82	0·70	29·00	0·80	21·57	0·52	20·34	0·78	21·75	0·53	21·03	0·66	22·73	0·13	15·87	0·54	20·27
36	Sept. 5-11 –	1·10	26·66	0·74	22·20	0·49	18·49	0·50	15·78	0·41	17·41	0·88	18·25	0·60	18·42	0·84	29·84	0·74	22·31	0·60	20·94	0·98	22·73	0·33	21·36	0·70	23·43	0·73	16·60	0·65	20·92
37	12-18 –	0·15	26·81	0·16	22·36	0·40	18·89	0·59	16·37	0·34	17·75	0·49	18·74	0·40	18·82	0·08	29·92	0·04	22·35	0·06	21·00	0·02	22·75	0·05	21·41	0·05	23·48	0·21	16·81	0·22	21·14
38	19-25 –	0·35	27·16	0·76	23·12	0·36	19·25	0·31	16·68	0·58	18·33	0·59	19·33	0·52	19·34	0·34	30·26	0·55	22·90	0·39	21·39	0·34	23·09	0·27	21·68	0·38	23·86	0·07	16·88	0·45	21·59
39	26-Oct. 2	0·44	27·60	0·41	23·53	0·61	19·86	0·44	17·12	1·09	19·42	1·31	20·64	0·77	20·11	1·05	31·31	1·45	24·35	1·77	23·16	1·25	24·34	1·40	23·08	1·36	25·22	0·77	17·65	1·07	22·66
40	Oct. 3-9 –	1·64	29·24	0·64	24·17	0·42	20·28	0·55	17·67	0·66	20·08	0·85	21·49	0·63	20·74	1·53	32·84	1·19	25·54	1·11	24·27	1·13	25·47	1·13	24·21	1·22	26·44	1·31	18·96	0·93	23·59
41	10-16 –	2·87	32·11	2·00	26·17	0·84	20·92	0·62	18·29	1·18	21·26	1·47	22·96	1·18	21·92	2·86	35·70	1·82	27·36	2·62	26·89	1·43	26·90	1·54	25·75	2·06	28·50	1·38	20·34	1·62	25·21
42	17-23 –	1·98	34·09	1·22	27·39	0·84	21·76	0·54	18·83	0·81	22·07	0·65	23·61	0·80	22·72	2·62	38·32	2·08	29·44	1·20	28·09	2·34	29·24	2 49	28·24	2·15	30·65	0·80	21·14	1·48	26·69
43	24-30 –	0·54	34·63	0·39	27·78	0·60	22·36	1·85	20·68	0·65	22·72	3·10	26·71	1·32	24·04	0·29	38·61	0·42	29·86	1·68	29·77	0·45	29·69	0·57	28·81	0·68	31·33	2·53	23·67	1·00	27·69
44	Oct. 31-Nov. 6	0·50	35·13	0·23	28·01	0·09	22·45	0·42	21·10	0·09	22·81	0·27	26·98	0·22	24·26	0·20	38·81	0·33	30·19	0·13	29·90	0·49	30·18	0·15	28·96	0·26	31·59	0·33	24·00	0·24	27·93
45	Nov. 7-13 –	2·41	37·54	0·60	28·61	0·06	22·51	0·07	21·17	0·07	22·88	0·09	27·07	0·18	24·44	0·87	39·68	0·28	30·47	0·14	30·04	0·47	30·65	0·35	29·31	0·42	32·01	0·23	24·23	0·30	28·23
46	14-20 –	0·38	37·92	0·13	28·74	0·29	22·80	0·38	21·55	0·16	23·04	0·20	27·27	0·23	24·67	0·02	39·70	0·01	30·48	0·20	30·24	0·04	30·69	0·04	29·35	0·06	32·07	0·43	24·66	0·14	28·37
47	21-27 –	0·46	38·38	0·28	29·02	0·33	23·13	0·24	21·79	0·12	23·16	0·06	27·33	0·21	24·88	0·57	40·27	0·53	31·01	0·28	30·52	0·42	31·11	0·44	29·79	0·45	32·52	0·14	24·80	0·33	28·70
48	Nov. 28-Dec. 4	2·09	40·47	1·18	30·20	1·16	24·29	1·45	23·24	1·50	24·66	1·72	29·05	1·40	26·28	2·02	42·29	2·27	33·28	2·41	32·93	1·88	32·99	1·58	31·37	2·03	34·55	2·92	27·72	1·72	30·42
49	Dec. 5-11 –	1·64	42·11	1·02	31·22	1·03	25·32	0·86	24·10	0·80	25·46	0·95	30·00	0·93	27·21	2·22	44·51	1·37	34·65	1·51	34·44	0·84	33·83	1·03	32·40	1·39	35·94	1·13	28·85	1·16	31·58
50	12-18 –	0·22	42·33	0·17	31·39	0·33	25·65	0·76	24·86	0·77	26·23	0·81	30·81	0·57	27·78	0·03	44·54	0·26	34·91	1·05	35·49	0·21	34·04	0·28	32·68	0·37	36·31	0·35	29·20	0·47	32·05
51	19-25 –	1·10	43·43	0·51	31·90	1·26	26·91	0·92	25·78	1·35	27·58	1·14	31·95	1·04	28·82	1·28	45·82	1·74	36·65	1·67	37·16	1·22	35·26	1·37	34·05	1·45	37·76	0·78	29·98	1·24	33·29
52	Dec. 26-Jan. 1/10	1·66	45·09	0·81	32·71	0·43	27·34	0·25	26·03	0·35	27·93	0·17	32·12	0·40	29·22	1·61	47·43	1·22	37·87	0·36	37·52	0·61	35·87	0·65	34·70	0·89	38·65	0·41	30·39	0·64	33·93

TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **ACCUMULATED HEAT** ABOVE 42° F. IN EACH DISTRICT DURING THE YEAR 1909.

1909.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
Weeks.																															
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.
Day-Degrees above 42° Fahrenheit—1909.																															
	1909.																														
1	Jan. 3-9 -	11	11	10	10	8	8	6	6	8	8	8	8	8	8	18	18	16	16	19	19	23	23	25	25	20	20	29	29	14	14
2	10-16 -	0	11	0	10	4	12	10	16	10	18	23	31	9	17	2	20	9	25	25	44	8	31	25	50	14	34	39	68	11	25
3	17-23 -	6	17	5	15	3	15	0	16	0	18	1	32	2	19	6	26	2	27	2	46	11	42	14	64	7	41	18	86	4	29
4	24-30 -	1	18	0	15	0	15	0	16	0	18	0	32	0	19	0	26	0	27	0	46	10	52	22	86	6	47	13	99	3	32
5	Jan. 31-Feb. 6	6	24	8	23	12	27	14	30	15	33	25	57	15	34	11	37	19	46	25	71	26	78	32	118	23	70	30	129	19	51
6	Feb. 7-13 -	0	24	0	23	0	27	0	30	0	33	0	57	0	34	0	37	0	46	0	71	6	84	10	128	3	73	10	139	2	53
7	14-20 -	11	35	11	34	6	33	5	35	9	42	7	64	8	42	10	47	7	53	10	81	15	99	17	145	12	85	23	162	10	63
8	21-27 -	9	44	5	39	2	35	0	35	1	43	0	64	1	43	7	54	5	58	3	84	19	118	23	168	11	96	12	174	6	69
9	Feb. 28-Mar. 6	0	44	0	39	0	35	0	35	0	43	0	64	0	43	0	54	0	58	0	84	0	118	0	168	0	96	1	175	0	69
10	Mar. 7-13 -	0	44	0	39	0	35	0	35	0	43	0	64	0	43	1	55	0	58	0	84	4	122	8	176	3	99	8	183	1	70
11	14-20 -	0	44	0	39	5	40	4	39	7	50	5	69	4	47	9	64	8	66	10	94	12	134	18	194	12	111	24	207	8	78
12	21-27 -	11	55	7	46	16	56	26	65	29	79	25	94	21	68	28	92	29	95	26	120	32	166	36	230	30	141	36	243	26	104
13	28-Apr. 3	5	60	2	48	25	81	30	95	30	109	27	121	23	91	8	100	23	118	24	144	17	183	30	260	20	161	44	287	22	126
14	April 4-10 -	45	105	55	103	57	138	52	147	73	182	58	179	59	150	56	156	61	179	60	204	52	235	56	316	57	218	59	346	58	184
15	11-17 -	27	132	35	138	51	189	62	209	56	238	52	231	51	201	37	193	39	218	45	249	42	277	53	369	43	261	66	412	47	231
16	18-24 -	39	171	46	184	53	242	65	274	60	298	60	291	57	258	44	237	52	270	52	301	47	324	53	422	50	311	72	484	53	284
17	25-May 1	12	183	17	201	39	281	49	323	47	345	45	336	39	297	35	272	37	307	37	338	34	358	39	461	36	347	62	546	38	322
18	May 2-8 -	56	239	59	260	52	333	51	374	68	413	58	394	58	355	65	337	66	373	62	400	62	420	74	535	66	413	76	622	62	384
19	9-15 -	29	268	35	295	39	372	46	420	56	469	55	449	46	401	46	3 3	46	419	59	459	49	469	64	599	53	466	67	689	50	434
20	16-22 -	46	314	53	348	64	436	72	492	80	549	78	527	69	470	57	440	64	483	69	528	56	525	60	659	61	527	90	779	65	499
21	23-29 -	64	378	73	421	91	527	99	591	93	642	93	620	90	560	76	516	83	566	81	609	78	603	81	740	80	607	91	870	85	584
22	May 30-June 5	51	429	57	478	71	598	78	669	78	720	82	702	73	633	71	587	71	637	76	685	69	672	85	825	75	682	92	962	74	658
23	June 6-12 -	51	480	56	534	57	655	57	726	56	776	63	765	58	691	59	646	56	693	71	756	66	738	76	901	65	747	94	1056	61	719
24	13-19 -	71	551	71	605	77	732	87	813	89	865	96	861	84	775	83	729	86	779	97	853	92	830	109	1010	93	840	105	1161	89	808
25	20-26 -	66	617	71	676	86	818	104	917	87	952	100	961	90	865	80	809	83	862	87	940	75	905	83	1093	82	922	104	1265	86	894
26	27-July 3	75	692	78	754	86	904	94	1011	92	1044	90	1051	88	953	99	908	96	958	97	1037	97	1002	110	1203	100	1022	107	1372	94	988
27	July 4-10 -	83	775	91	845	106	1010	113	1124	111	1155	115	1166	107	1060	94	1002	101	1059	105	1142	93	1095	106	1309	100	1122	114	1486	104	1092
28	11-17 -	85	860	101	946	113	1123	119	1243	120	1275	122	1288	115	1175	97	1099	110	1169	113	1255	102	1197	118	1427	108	1230	118	1604	111	1203
29	18-24 -	78	938	95	1041	117	1240	133	1376	120	1395	131	1419	119	1294	95	1194	108	1277	119	1374	100	1297	116	1543	108	1338	127	1731	114	1317
30	25-31 -	78	1016	81	1122	104	1344	116	1492	111	1506	123	1542	107	1401	90	1284	105	1382	114	1488	90	1387	104	1647	101	1439	128	1859	104	1421
31	Aug. 1-7 -	90	1106	104	1226	123	1467	120	1612	122	1628	128	1670	119	1520	106	1390	107	1489	127	1615	113	1500	123	1770	115	1554	142	2001	117	1538
32	8-14 -	106	1212	132	1358	150	1617	150	1762	160	1788	169	1839	152	1672	125	1515	136	1625	168	1783	137	1637	148	1918	142	1696	169	2170	147	1685
33	15-21 -	86	1298	101	1459	126	1743	143	1905	130	1918	143	1982	129	1801	106	1621	120	1745	132	1915	108	1745	122	2040	116	1812	148	2318	123	1808
34	22-28 -	74	1372	76	1535	97	1840	109	2014	100	2018	112	2094	99	1900	88	1709	97	1842	109	2024	94	1839	106	2146	99	1911	130	2448	99	1907
35	Aug. 29-Sept. 4	56	1428	60	1595	83	1923	83	2097	77	2095	87	2181	78	1978	72	1781	82	1924	88	2112	78	1917	97	2243	84	1995	112	2560	81	1988
36	Sept. 5-11 -	63	1491	62	1657	71	1994	83	2180	74	2169	92	2273	76	2054	71	1852	72	1996	81	2193	75	1992	87	2330	77	2072	118	2678	76	2064
37	12-18 -	59	1550	58	1715	75	2069	96	2276	80	2249	99	2372	82	2136	71	1923	71	2067	87	2280	66	2058	72	2402	74	2146	111	2789	78	2142
38	19-25 -	63	1613	56	1771	81	2150	98	2374	88	2337	107	2479	86	2222	74	1997	83	2150	99	2379	85	2143	95	2497	87	2233	125	2914	86	2228
39	26-Oct. 2	52	1665	52	1823	74	2224	81	2455	78	2415	89	2568	75	2297	70	2067	81	2231	92	2471	85	2228	97	2594	85	2318	111	3025	80	2308
40	Oct. 3-9 -	57	1722	65	1888	82	2306	93	2548	83	2498	96	2664	84	2381	78	2145	82	2313	93	2564	81	2309	97	2691	86	2404	113	3138	85	2393
41	10-16 -	48	1770	51	1939	74	2380	90	2638	81	2579	95	2759	78	2459	62	2207	78	2391	91	2655	64	2373	76	2767	74	2478	109	3247	76	2469
42	17-23 -	46	1816	47	1986	76	2456	91	2729	79	2658	96	2855	78	2537	57	2264	77	2468	88	2743	62	2435	76	2843	72	2550	111	3358	75	2544
43	24-30 -	6	1822	6	1992	13	2469	22	2751	13	2671	25	2880	16	2553	12	2276	12	2480	23	2766	13	2448	16	2859	15	2565	55	3413	15	2559
44	Oct. 31-Nov. 6	30	1852	38	2030	37	2506	37	2788	36	2707	39	2919	37	2590	35	2311	32	2512	37	2803	36	2484	40	2899	36	2601	58	3471	37	2596
45	Nov. 7-13 -	15	1867	16	2046	20	2526	29	2817	19	2726	31	2950	23	2613	28	2339	25	2537	30	2833	30	2514	33	2932	29	2630	45	3516	26	2622
46	14-20 -	0	1867	0	2046	3	2529	7	2824	0	2726	6	2956	3	2616	0	2339	0	2537	3	2836	3	2517	4	2936	2	2632	19	3535	2	2624
47	21-27 -	5	1872	2	2048	1	2530	0	2824	3	2729	1	2957	1	2617	7	2346	5	2542	10	2846	12	2529	11	2947	9	2641	25	3560	5	2629
48	Nov. 28-Dec. 4	0	1872	0	2048	7	2537	24	2848	23	2752	27	2984	16	2633	5	2351	20	2562	25	2871	12	2541	27	2974	18	2659	46	3606	17	2646
49	Dec. 5-11 -	0	1872	0	2048	3	2540	1	2849	3	2755	5	2989	3	2636	1	2352	5	2567	11	2882	8	2549	11	2985	7	2666	22	3628	5	2651
50	12-18 -	0	1872	0	2048	0	2540	0	2849	0	2755	0	2989	0	2636	1	2353	1	2568	0	2882	6	2555	6	2991	3	2669	7	3635	2	2653
51	19-25 -	0	1872	0	2048	0	2540	4	2853	3	2758	12	3001	4	2640	0	2353	0	2568	12	2894	0	2555	5	2996	4	2673	32	3667	4	2657
52	Dec. 26-Jan. 1/10	13	1885	15	2063	26	2566	26	2879	30	2788	28	3029	25	2665	29	2382	28	2596	28	2922	34	2589	35	3031	31	2704	41	3708	28	2685

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **ACCUMULATED HEAT** BELOW 42° F. IN EACH DISTRICT DURING THE YEAR 1909.

1909.		0. Scotland N.		Eastern Districts.												Western Districts.												11. English Channel.		Means for Districts 1-10 combined.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.					
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.
	DAY-DEGREES BELOW 42° FAHRENHEIT—1909.																														
	1909.																														
1	Jan. 3-9 -	13	13	25	25	22	22	25	25	24	24	20	20	23	23	10	10	9	9	7	7	5	5	1	1	6	6	0	0	14	14
2	10-16 -	45	58	46	71	30	52	28	53	28	52	13	33	29	52	30	40	24	33	10	17	25	30	12	13	20	26	0	0	25	39
3	17-23 -	27	85	35	106	35	87	29	82	34	86	29	62	32	84	24	64	29	62	31	48	26	56	28	41	28	54	6	6	30	69
4	24-30 -	25	110	47	153	76	163	71	153	81	167	62	124	67	151	31	95	58	120	46	94	20	76	12	53	33	87	31	37	50	119
5	Jan. 31-Feb. 6	29	139	32	185	26	189	24	177	25	192	16	140	25	176	21	116	12	132	10	104	5	81	6	59	11	98	3	40	18	137
6	Feb. 7-13 -	29	168	48	233	51	240	50	227	53	245	45	185	49	225	32	148	40	172	30	134	24	105	22	81	29	127	18	58	39	176
7	14-20 -	28	196	40	273	41	281	45	272	53	298	45	230	45	270	28	176	38	210	44	178	24	129	25	106	32	159	12	70	39	215
8	21-27 -	30	226	38	311	41	322	55	327	57	355	53	283	49	319	30	206	38	248	41	219	11	140	14	120	27	186	20	90	38	253
9	Feb. 28-Mar. 6	83	309	83	394	73	395	78	405	90	445	86	369	82	401	69	275	76	324	75	294	59	199	57	177	67	253	35	125	74	327
10	Mar. 7-13 -	39	348	53	447	43	438	39	444	47	492	34	403	43	444	32	307	39	363	35	329	29	228	29	206	33	286	15	140	38	365
11	14-20 -	45	393	51	498	39	477	35	479	41	533	32	435	40	484	34	341	32	395	32	361	31	259	28	234	31	317	11	151	36	401
12	21-27 -	23	416	28	526	24	501	12	491	15	548	9	444	18	502	18	359	14	409	8	369	13	272	7	241	13	330	0	151	15	416
13	28-Apr. 3	28	444	35	561	14	515	11	502	13	561	8	452	16	518	24	383	12	421	4	373	9	281	0	241	10	340	0	151	13	429
14	April 4-10 -	18	462	26	587	23	538	23	525	28	589	18	470	24	542	21	404	19	440	12	385	15	296	13	254	16	356	0	151	20	449
15	11-17 -	12	474	19	606	7	545	6	531	7	596	2	472	8	550	8	412	3	443	0	385	3	299	0	254	3	359	0	151	6	455
16	18-24 -	6	480	10	616	3	548	0	531	5	601	0	472	4	554	2	414	0	443	0	385	0	299	0	254	0	359	0	151	2	457
17	25-May 1	26	506	15	631	9	557	3	534	8	609	1	473	7	561	11	425	5	448	0	385	8	307	3	257	5	364	0	151	6	463
18	May 2-8 -	7	513	16	647	9	566	3	537	12	621	1	474	8	569	6	431	6	454	0	385	0	307	0	257	2	366	0	151	5	468
19	9-15 -	16	529	17	664	12	578	14	551	14	635	8	482	13	582	11	442	11	465	5	390	8	315	8	265	9	375	0	151	11	479
20	16-22 -	6	535	9	673	2	580	3	554	7	642	0	482	4	586	3	445	1	466	0	390	0	315	0	265	1	376	0	151	2	481
21	23-29 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
22	May 30-June 5	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
23	June 6-12 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
24	13-19 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
25	20-26 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
26	27-July 3	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
27	July 4-10 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
28	11-17 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
29	18-24 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
30	25-31 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
31	Aug. 1-7 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
32	8-14 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
33	15-21 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
34	22-28 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
35	Aug. 29-Sept. 4	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
36	Sept. 5-11 -	0	535	0	673	0	580	0	554	0	642	0	482	0	586	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	481
37	12-18 -	0	535	4	677	0	580	0	554	0	642	0	482	1	587	0	445	0	466	0	390	0	315	0	265	0	376	0	151	1	482
38	19-25 -	0	535	0	677	0	580	0	554	0	642	0	482	0	587	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	482
39	26-Oct. 2	0	535	0	677	0	580	0	554	0	642	0	482	0	587	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	482
40	Oct. 3-9 -	0	535	0	677	0	580	0	554	0	642	0	482	0	587	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	482
41	10-16 -	0	535	0	677	0	580	0	554	0	642	0	482	0	587	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	482
42	17-23 -	0	535	0	677	0	580	0	554	0	642	0	482	0	587	0	445	0	466	0	390	0	315	0	265	0	376	0	151	0	482
43	24-30 -	36	571	36	713	22	602	11	565	23	665	8	490	20	607	37	482	23	489	7	397	26	341	15	280	22	398	0	151	21	503
44	Oct. 31-Nov. 6	7	578	16	729	5	607	0	565	8	673	2	492	6	613	11	493	5	494	4	401	8	349	8	288	7	405	0	151	7	510
45	Nov. 7-13 -	29	607	34	763	20	627	18	583	34	707	19	511	25	638	18	511	13	507	13	414	15	364	19	307	16	421	0	151	20	530
46	14-20 -	64	671	84	847	40	667	30	613	42	749	28	539	45	683	69	580	46	553	30	444	49	413	40	347	47	468	9	160	46	576
47	21-27 -	26	697	33	880	33	700	33	646	40	789	39	578	36	719	40	620	34	587	35	479	36	449	41	388	37	505	13	173	36	612
48	Nov. 28-Dec. 4	34	731	36	916	25	725	9	655	13	802	4	582	17	736	25	645	11	598	1	480	23	472	9	397	14	519	0	173	16	628
49	Dec. 5-11 -	41	772	53	969	38	763	34	689	39	841	34	616	40	776	41	686	31	629	26	506	34	506	29	426	32	551	7	180	36	664
50	12-18 -	53	825	35	1004	15	778	22	711	28	869	26	642	25	801	26	712	23	652	27	533	15	521	16	442	21	572	17	197	23	687
51	19-25 -	74	899	76	1080	59	837	42	753	56	925	42	684	55	856	56	768	48	700	36	569	49	570	47	489	47	619	10	207	51	738
52	Dec. 26-Jan. 1/10	34	933	36	1116	16	853	14	767	14	939	12	696	18	874	13	781	7	707	1	570	6	576	2	491	6	625	0	207	12	750

TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE IN EACH DISTRICT REGISTERED DURING THE YEAR 1909.

1909.		0. Scotland, N.		Eastern Districts.												Western Districts.												11. English Channel.		Means for Districts 1-10 combined.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.							
Weeks.																															
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.
	Numbers of Hours of Bright Sunshine—1909.																														
	1909.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.
1	Jan. 3-9 -	6	6	12	12	11	11	10	10	8	8	10	10	10	10	10	10	6	6	8	8	8	8	7	7	8	8	13	13	9	9
2	10-16 -	3	9	11	23	19	30	23	33	18	26	19	29	18	28	8	18	7	13	11	19	8	16	6	13	8	16	10	23	13	22
3	17-23 -	3	12	9	32	12	42	11	44	11	37	14	43	11	39	8	26	16	29	22	41	8	24	15	28	14	30	20	43	12	34
4	24-30 -	7	19	13	45	19	61	24	68	12	49	21	64	18	57	8	34	26	55	23	64	12	36	14	42	17	47	30	73	17	51
5	Jan. 31-Feb. 6	14	33	13	58	12	73	12	80	15	64	15	79	13	70	10	44	14	69	12	76	9	45	13	55	12	59	14	87	12	63
6	Feb. 7-13 -	8	41	10	68	7	80	20	100	10	74	24	103	14	84	15	59	14	83	29	105	18	63	21	76	20	79	27	114	17	80
7	14-20 -	17	58	23	91	24	104	31	131	31	105	37	140	29	113	21	80	30	113	33	138	11	74	17	93	22	101	38	152	26	106
8	21-27 -	18	76	14	105	23	127	26	157	25	130	31	171	24	137	14	94	26	139	31	169	7	81	19	112	19	120	37	189	22	128
9	Feb. 28-Mar. 6	21	97	18	123	19	146	14	171	14	144	17	188	17	154	20	114	22	161	20	189	28	109	25	137	23	143	26	215	20	148
10	Mar. 7-13 -	14	111	6	129	8	154	14	185	11	155	17	205	11	165	10	124	13	174	17	206	11	120	19	156	14	157	23	238	13	161
11	14-20 -	19	130	22	151	26	180	18	203	24	179	22	227	23	188	31	155	34	208	33	239	26	146	37	193	32	189	37	275	28	189
12	21-27 -	14	144	11	162	17	197	20	223	19	198	20	247	18	206	20	175	26	234	23	262	25	171	23	216	23	212	25	300	21	210
13	28-Apr. 3	23	167	11	173	20	217	24	247	18	216	19	266	18	224	19	185	13	247	10	272	6	177	7	223	9	221	25	325	13	223
14	April 4-10 -	44	211	55	228	66	283	81	328	71	287	78	344	70	294	47	232	64	311	65	337	56	233	54	277	57	278	74	399	64	287
15	11-17 -	29	240	28	256	43	326	38	366	38	325	40	384	37	331	33	265	36	347	29	366	43	276	47	324	38	316	36	435	37	324
16	18-24 -	33	273	42	298	45	371	58	424	49	374	46	430	48	379	34	299	46	393	43	409	34	310	38	362	39	355	42	477	44	368
17	25-May 1	31	304	33	331	44	415	61	485	53	427	66	496	51	430	51	350	48	441	52	461	45	355	46	408	49	404	66	543	50	418
18	May 2-8 -	55	359	63	394	78	493	90	575	86	513	91	587	82	512	72	422	85	526	86	547	59	414	64	472	73	477	85	628	78	496
19	9-15 -	42	401	40	434	35	528	46	621	49	562	67	654	47	559	58	480	67	593	79	626	68	482	72	544	69	546	84	712	58	554
20	16-22 -	38	439	38	472	53	581	68	689	62	624	75	729	59	618	50	530	57	650	66	692	29	511	43	587	49	595	70	782	54	608
21	23-29 -	26	465	38	510	43	624	50	739	41	665	57	786	46	664	34	564	35	685	38	730	32	543	33	620	34	629	53	835	40	648
22	May 30-June 5	32	497	34	544	33	657	25	764	21	686	31	817	29	693	41	605	35	720	16	746	32	575	40	660	33	662	29	864	31	679
23	June 6-12 -	35	532	47	591	39	696	38	802	25	711	34	851	37	730	54	659	43	763	43	789	39	614	37	697	43	705	62	926	40	719
24	13-19 -	38	570	53	644	30	726	28	830	38	749	41	892	38	768	66	725	64	827	62	851	42	656	44	741	56	761	73	999	47	766
25	20-26 -	24	594	23	667	15	741	31	861	18	767	34	926	24	792	22	747	12	839	28	879	22	678	23	764	21	782	53	1052	22	788
26	27-July 3	31	625	37	704	30	771	44	905	38	805	44	970	39	831	46	793	44	883	58	937	37	715	42	806	45	827	70	1122	42	830
27	July 4-10 -	19	644	34	738	35	806	33	938	36	841	34	1004	34	865	37	830	35	918	40	977	25	740	32	838	34	861	45	1167	34	864
28	11-17 -	26	670	42	780	34	840	35	973	27	868	26	1030	33	898	32	862	30	948	29	1006	17	757	21	859	26	887	38	1205	29	893
29	18-24 -	32	702	40	820	48	888	60	1033	48	916	61	1091	51	949	36	898	32	980	48	1054	33	790	43	902	38	925	50	1255	45	938
30	25-31 -	31	733	24	844	29	917	37	1070	35	951	35	1126	32	981	32	930	33	1013	36	1090	31	821	28	930	32	957	44	1299	32	970
31	Aug. 1-7 -	28	761	37	881	41	958	53	1123	49	1000	60	1186	48	1029	38	968	49	1062	59	1149	36	857	53	983	47	1004	80	1379	48	1018
32	8-14 -	26	787	51	932	65	1023	64	1187	70	1070	78	1264	66	1095	62	1030	58	1120	76	1225	37	894	57	1040	58	1062	80	1459	62	1080
33	15-21 -	44	831	35	967	36	1059	43	1230	36	1106	36	1300	37	1132	40	1070	33	1153	35	1260	47	941	44	1084	40	1102	34	1493	38	1118
34	22-28 -	19	850	19	986	23	1082	29	1259	30	1136	34	1334	27	1159	28	1098	23	1176	41	1301	11	952	20	1104	25	1127	49	1542	26	1144
35	Aug. 29-Sept. 4	31	881	33	1019	33	1115	40	1299	33	1169	48	1382	37	1196	29	1127	25	1201	31	1332	12	964	21	1125	23	1150	45	1587	30	1174
36	Sept. 5-11 -	27	908	32	1051	33	1148	38	1337	33	1202	44	1426	36	1232	40	1167	33	1234	35	1367	26	990	37	1162	34	1184	43	1630	35	1209
37	12-18 -	52	960	40	1091	16	1164	24	1361	12	1214	25	1451	23	1255	34	1201	30	1264	38	1405	48	1038	41	1203	38	1222	34	1664	30	1239
38	19-25 -	17	977	11	1102	21	1185	27	1388	23	1237	32	1483	23	1278	24	1225	33	1297	33	1438	30	1068	29	1232	30	1252	56	1720	27	1266
39	26-Oct. 2	22	999	12	1114	13	1198	12	1400	10	1247	10	1493	12	1290	6	1231	12	1309	15	1453	6	1074	14	1246	11	1263	16	1736	11	1277
40	Oct. 3-9 -	16	1015	24	1138	22	1220	29	1429	24	1271	29	1522	26	1316	17	1248	20	1329	23	1476	17	1091	31	1277	22	1285	26	1762	24	1301
41	10-16 -	12	1027	17	1155	23	1243	22	1451	25	1296	21	1543	21	1337	12	1260	18	1347	18	1494	21	1112	16	1293	17	1302	20	1782	19	1320
42	17-23 -	15	1042	18	1173	20	1263	14	1465	19	1315	18	1561	18	1355	10	1270	16	1363	22	1516	17	1129	23	1316	18	1320	30	1812	18	1338
43	24-30 -	30	1072	31	1204	23	1286	14	1479	23	1338	20	1581	22	1377	38	1308	28	1391	28	1544	27	1156	35	1351	31	1351	23	1835	26	1364
44	Oct. 31-Nov. 6	13	1085	17	1221	8	1294	12	1491	8	1346	21	1602	13	1390	14	1322	13	1404	13	1557	18	1174	19	1370	15	1366	19	1854	14	1378
45	Nov. 7-13 -	12	1097	19	1240	28	1322	33	1524	27	1373	34	1636	28	1418	21	1343	23	1427	30	1587	21	1195	22	1392	23	1389	24	1878	26	1404
46	14-20 -	18	1115	26	1266	21	1343	19	1543	19	1392	27	1663	22	1440	22	1365	26	1453	31	1618	35	1230	34	1426	30	1419	25	1903	26	1430
47	21-27 -	10	1125	14	1280	17	1360	19	1562	13	1405	17	1680	16	1456	19	1384	17	1470	28	1646	19	1249	24	1450	21	1440	26	1929	18	1448
48	Nov. 28-Dec. 4	7	1132	9	1289	6	1366	10	1572	6	1411	12	1692	9	1465	9	1393	5	1475	7	1653	9	1258	13	1463	9	1449	6	1935	9	1457
49	Dec. 5-11 -	9	1141	14	1303	11	1377	14	1586	9	1420	17	1709	13	1478	8	1401	8	1482	10	1663	5	1263	9	1472	8	1457	11	1946	10	1467
50	12-18 -	6	1147	4	1307	1	1378	2	1588	2	1422	3	1712	3	1481	6	1407	6	1489	12	1675	8	1271	11	1483	9	1466	8	1954	6	1473
51	19-25	8	1155	16	1323	16	1394	20	1608	17	1439	20	1732	18	1499	14	1421	15	1504	15	1690	16	1287	15	1498	15	1481	13	1967	17	1490
52	Dec. 26-Jan. 1/10	2	1157	8	1331	9	1403	11	1619	11	1450	11	1743	10	1509	6	1427	10	1514	9	1699	4	1291	8	1506	7	1488	8	1975	9	1499

TABLE VI.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **BRIGHT SUNSHINE** IN EACH DISTRICT EXPRESSED AS **PERCENTAGES** OF THE **POSSIBLE DURATION** FOR THE YEAR 1909.

1909.		0. Scotland, N.		Eastern Districts.												Western Districts.															
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined	
Week.	Limiting Dates of each week.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.	For the Week.	From Jan. 3, 1909.
	PERCENTAGES OF POSSIBLE DURATION OF BRIGHT SUNSHINE—1909.																														
	1909.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Jan. 3-9 -	12	12	26	26	21	21	20	20	16	16	19	19	19	19	20	20	11	11	14	14	16	16	13	13	15	15	23	23	17	17
2	10-16 -	6	10	22	24	37	29	43	31	34	24	34	26	34	27	16	18	13	12	19	17	15	16	11	12	15	15	16	20	25	21
3	17-23 -	6	9	17	22	22	27	20	27	20	23	23	25	20	24	15	17	29	18	39	24	14	15	27	17	25	19	34	25	22	21
4	24-30 -	14	10	24	22	33	29	41	31	21	22	36	28	32	26	15	16	45	26	38	28	20	17	24	19	30	22	49	31	30	24
5	Jan. 31-Feb. 6	25	13	22	23	20	27	20	28	24	23	23	27	22	25	18	16	24	25	19	26	16	17	22	20	20	21	23	29	20	23
6	Feb. 7-13 -	13	13	16	21	11	24	31	29	16	21	37	29	22	25	24	18	21	25	45	30	29	19	33	22	32	23	43	31	27	24
7	14-20 -	28	16	36	24	36	26	46	32	46	25	54	33	43	28	31	20	44	28	49	33	17	18	25	23	33	25	55	35	39	26
8	21-27 -	26	17	20	23	33	27	36	32	36	27	43	35	34	29	20	20	37	29	43	34	10	17	26	23	27	25	52	37	31	27
9	Feb. 28-Mar. 6	29	19	25	24	26	27	19	31	18	26	23	33	23	28	27	21	30	29	27	33	38	20	33	25	32	26	34	37	27	27
10	Mar. 7-13 -	19	19	8	22	11	25	18	29	14	24	22	32	14	26	13	20	16	28	21	32	15	19	25	25	18	25	29	36	17	26
11	14-20 -	24	20	28	22	32	26	22	28	30	25	28	31	28	27	38	22	42	29	41	33	32	21	46	27	40	27	46	37	35	27
12	21-27 -	17	19	13	21	20	25	23	28	22	25	24	30	21	26	24	22	31	30	28	32	30	22	27	27	27	27	30	36	25	27
13	28-Apr. 3	26	20	13	20	23	25	27	28	21	24	22	30	20	26	11	21	14	28	11	30	6	20	7	25	10	25	29	36	15	25
14	April 4-10 -	48	23	60	24	73	29	89	33	78	29	87	35	77	30	51	24	71	32	72	34	62	24	59	28	63	29	82	40	70	29
15	11-17 -	30	23	29	25	46	31	40	34	40	30	43	36	39	31	35	25	38	33	31	34	45	26	50	30	40	30	38	40	39	30
16	18-24 -	32	24	42	26	46	32	60	36	51	32	47	36	49	33	35	26	47	34	45	35	35	27	39	31	40	31	43	40	45	32
17	25-May 1	30	25	32	27	44	33	61	38	53	34	66	39	50	34	50	28	47	35	52	36	44	28	45	32	49	32	67	42	50	33
18	May 2-8 -	51	27	59	29	75	36	87	42	83	37	89	43	79	37	68	31	82	38	83	40	57	30	61	34	70	35	85	45	75	36
19	9-15 -	37	28	36	30	33	36	43	42	46	38	64	44	44	38	53	33	63	40	75	42	63	33	68	37	64	37	80	48	54	37
20	16-22 -	33	28	33	30	48	37	63	43	57	39	70	46	54	39	45	34	52	41	61	43	26	32	39	37	45	38	66	49	49	38
21	23-29 -	22	28	33	30	38	37	45	44	36	39	52	46	41	39	30	33	31	40	35	43	29	32	30	37	30	37	49	49	35	38
22	May 30-June 5	27	28	29	30	29	36	22	42	18	38	28	45	25	38	35	33	30	40	15	41	28	32	36	36	29	36	26	48	27	37
23	June 6-12 -	28	28	39	31	34	36	33	42	22	37	30	44	32	38	46	34	37	40	38	41	33	32	32	36	37	37	56	48	34	37
24	13-19 -	30	28	44	31	26	35	24	41	33	37	36	44	33	37	56	35	55	40	54	42	36	32	38	36	48	37	65	49	40	37
25	20-26 -	19	27	18	31	13	34	27	40	16	36	30	43	20	37	18	34	10	39	25	41	18	31	20	35	18	36	47	49	19	37
26	27-July 3	25	27	30	31	26	34	38	40	33	35	39	43	33	36	39	35	38	39	50	41	32	31	36	35	38	36	63	49	36	36
27	July 4-10 -	15	27	28	31	30	34	29	39	32	35	30	42	29	36	31	34	30	38	35	41	21	31	28	35	29	36	40	49	29	36
28	11-17 -	22	26	35	31	29	33	30	39	24	35	23	41	29	36	27	34	26	38	26	40	14	30	19	34	23	36	34	48	25	36
29	18-24 -	27	26	34	31	42	34	54	40	43	35	55	42	45	36	31	34	28	37	43	40	29	30	39	34	34	35	46	48	39	36
30	25-31 -	27	26	21	31	26	34	33	39	31	35	32	41	29	36	29	34	30	37	33	40	28	30	25	34	29	35	41	48	29	35
31	Aug. 1-7 -	25	26	33	31	38	34	49	40	46	35	56	42	44	36	35	34	45	37	55	41	33	30	49	35	43	35	76	49	44	36
32	8-14 -	23	26	47	31	61	35	61	40	67	36	75	43	62	37	57	35	54	38	73	42	35	30	54	35	55	36	78	50	58	37
33	15-21 -	41	27	33	31	34	35	42	41	35	36	35	43	36	37	38	35	32	38	35	42	45	31	43	36	39	36	34	50	37	37
34	22-28 -	18	26	18	31	23	34	29	40	30	36	35	43	27	37	28	35	23	37	41	42	11	30	20	35	25	36	50	50	26	36
35	Aug. 29-Sept. 4	31	27	34	31	34	34	41	40	35	36	51	43	39	37	30	34	27	37	33	41	12	30	22	35	24	35	48	50	31	36
36	Sept. 5-11 -	29	27	34	31	36	34	41	40	36	36	48	43	39	37	43	35	36	37	38	41	28	30	40	35	37	35	47	49	38	36
37	12-18 -	57	27	44	31	17	34	27	40	13	36	29	43	26	37	38	35	34	37	43	41	53	30	46	35	42	36	39	49	33	36
38	19-25 -	19	27	13	31	25	34	32	40	26	35	37	43	27	36	28	35	38	37	38	41	35	30	33	35	35	36	65	50	31	36
39	26-Oct. 2	26	27	14	31	15	33	14	39	13	35	12	42	14	36	7	34	14	36	18	41	7	30	16	35	13	35	19	49	13	36
40	Oct. 3-9 -	20	27	30	31	28	33	37	39	30	35	36	42	33	36	21	34	24	36	29	40	21	30	39	35	28	35	33	48	30	35
41	10-16 -	16	27	22	31	31	33	30	39	33	35	28	41	28	36	15	33	23	36	24	40	28	30	21	35	22	35	26	48	25	35
42	17-23 -	21	27	26	30	27	33	19	39	26	34	24	41	25	36	13	33	23	36	30	40	24	29	31	35	25	34	40	48	25	35
43	24-30 -	46	27	47	31	34	33	20	38	33	34	29	41	32	35	55	33	41	36	39	40	39	30	50	35	45	35	32	48	38	35
44	Oct. 31-Nov. 6	21	27	27	30	11	33	18	38	12	34	31	41	20	35	22	33	19	35	19	40	28	30	29	35	23	34	28	47	21	35
45	Nov. 7-13 -	20	27	31	31	45	33	52	38	43	34	53	41	44	35	35	33	37	35	47	40	33	30	34	35	37	34	36	47	41	35
46	14-20 -	32	27	46	31	36	33	31	38	32	34	44	41	37	35	37	33	43	36	50	40	59	30	55	35	51	35	39	47	44	35
47	21-27 -	19	27	27	31	31	33	33	38	23	34	29	41	28	35	35	33	29	35	48	40	34	30	41	35	37	35	42	47	32	35
48	Nov. 28-Dec. 4	15	27	18	31	11	32	18	38	10	34	20	41	17	35	16	33	9	35	13	40	17	30	24	35	17	35	10	46	17	35
49	Dec. 5-11 -	19	27	30	31	20	32	25	37	17	33	31	40	25	35	15	33	16	35	18	39	10	30	16	35	15	34	18	46	19	35
50	12-18 -	13	26	8	30	2	32	4	37	4	33	6	40	6	34	12	33	12	35	22	39	16	30	21	35	17	34	15	46	12	34
51	19-25 -	18	26	35	30	33	32	39	37	34	33	37	40	35	34	28	33	30	35	29	39	33	30	28	34	29	34	24	45	33	34
52	Dec. 26-Jan. 1/10	5	26	17	30	17	32	21	37	21	33	20	40	20	34	13	32	19	34	17	39	7	29	14	34	14	34	15	45	18	34

Meteorological Office,
London, S.W.,

February 26th, 1910.

WEEKLY WEATHER REPORT, 1909.

Thirty-second Year.
VOL. XXVI. [*New Series.*] APPENDIX III. [*Price 4d.*

SUMMARY OF GALES RECORDED AT ANEMOGRAPH STATIONS IN 1909.

TABLE I.—NUMBER OF HOURS in each Month of MEAN Wind Velocity equivalent to Gale Force (39 miles, or more, in an hour; Force 8 and upwards).

Date, 1909.	Ireland S. and W.		England, S.W.		England N.W., N. Wales, and Ireland E.		Scotland, N.		Scotland, E.		England, N.E.		England, E.		England, S.E.	
	Station.	No. of Hours	Station.	No. of Hours	Station.	No. of Hours	Station.	No. of Hours	Station.	No. of Hours	Station.	No. of Hours	Station.	No. of Hours	Station.	No. of Hours
January ..	Valencia ..	1	Scilly ..	39	Holyhead	27	—		Edinburgh	33	—		—		—	
	Roche's Point	4	Pendennis	28	Southport	20										
					Fleetwood	39										
February.	Roche's Point	8	Scilly ..	3	Holyhead	1	—		—		—		Gorleston ..	1	Dover	1
			Pendennis	2	Fleetwood	4										
March ..	—		Scilly ..	13	Kingstown	2	Deerness	19	Aberdeen	6	—		Yarmouth ..	1	—	
			Pendennis	18												
April ..	Roche's Point	17	Pendennis	9	Kingstown	4	Deerness	6	—		—		—		—	
			Plymouth	3												
May ..	—		Pendennis	37	—				—		—		—		—	
July ..	Roche's Point	7	—		Southport	5	Deerness	1	—		—		—		—	
					Fleetwood	7										
August ..	—		Scilly ..	3	Southport	4	—		—		—		—		—	
					Fleetwood	5										
September.	—		—		Southport	2	—		—		—		—		—	
					Fleetwood	5										
October ..	Roche's Point	13	Scilly ..	20	Kingstown	22	Deerness	9	Edinburgh	11	—		Gorleston ..	5	Dover	7
			Pendennis	47	Holyhead	8							Yarmouth ..	14		
			Plymouth	7	Southport	13										
					Fleetwood	23										
November.	—		Scilly ..	5	Kingstown	1	Deerness	3	Edinburgh	2	—		—		—	
			Pendennis	51	Holyhead	2										
					Southport	11										
					Fleetwood	17										
December.	Valencia ..	5	Scilly ..	57	Kingstown	19	Deerness	6	Edinburgh	16	North Shields	1	Gorleston ..	10	Dover	4
	Roche's Point	14	Pendennis	55	Holyhead	23							Yarmouth ..	6	Bright'n	1
					Southport	11							Shoeburyness	4		
					Fleetwood	16										

In the Midland counties, which are not included in any of the above divisions, gale force was attained at Pyrton Hill (Oxon), during 2 hours in December. A mean velocity of 39 miles per hour was not reached at :—Armagh, Dublin, Glasgow, Stonyhurst, Falmouth Observatory, Kew, Alnwick Castle.

TABLE II.—OCCASIONS OF "STRONG GALE"—Winds of Mean Velocity, 47 or more miles in an hour, Force 9 and upwards.

Date. 1909.	Station.	Duration.	Direction.	Maximum Velocity for an hour.*	Maximum Velocity in a gust.
January 13–14..	Scilly	7h. 13th to 12h. 14th	W.N.W.	48	53
„ 14 ..	Holyhead	3h. to 7h.	W.	47	66
	Fleetwood	4h. to 7h.	W.	51	—
„ 14–15..	Pendennis	23h. 14th 1h. 15th	S.W.	49	61
„ 16 ..	Scilly	0h. to 5h. and 11h. to 12h.	W.N.W.	55	78
	Fleetwood	13h. to 15h.	W.	51	—
„ 17 ..	Edinburgh	8h. to 10h., 11h. to 13h. and 17h.	S.S.W.	50	—
„ 18 ..	Edinburgh	7h. to 11h.	S.S.W.	56	—
February 5 ..	Southport	5h. to 6h.	W.N.W.	48	63
	Fleetwood	4h. to 7h.	N.W.	51	—
March 18 ..	Scilly	3h. to 6h.	S.E.	49	64
April 21 ..	Roche's Point ..	23h. to 24h.	—	49	66
„ 22 ..	Pendennis	9h. to 13h.	S.	49	60
August 18 ..	Scilly	3h. to 6h.	N.N.W.	47	63
October 7 ..	Roche's Point ..	6h. to 10h.	—	52	68
	Pendennis	10h. to 3h.	S. to S.S.W.	56	67
„ 8 ..	Scilly	8h. to 9h.	W.N.W.	48	57
„ 13 ..	Pendennis	3h. to 5h.	S.S.W.	47	64
„ 14 ..	Edinburgh	19h. to 21h.	S. to S.W.	48	—
„ 19 ..	Edinburgh	23h.	S.	47	—
„ 23 ..	Scilly	17h. to 24h.	W.S.W. to W.N.W.	70	90
	Pendennis	11h. to 22h.	S.S.W. to N.W.	55	73
„ 24 ..	Fleetwood	0h. to 1h. and 5h. to 9h.	W.	50	—
November 12 ..	Deerness	19h. to 21h.	N.E.	52	—
„ 12–13..	Fleetwood	17h. 12th to 3h. 13th	W.	55	—
„ 18 ..	Pendennis	6h. to 24h.	N.E. to E.N.E.	56	75
December 1 ..	Scilly	9h. to 18h	W.	56	66
	Pendennis	12h. to 17h.	W.	49	73
	Holyhead	15h. to 16h.	W.N.W.	50	66
„ 2 ..	Pendennis	16h. to 24h.	S.W. to W.	55	75
„ 2–3 ..	Scilly	22h. 2nd to 1h. 3rd	W.	54	75
„ 3 ..	Holyhead	2h. to 6h.	N.W. to W.N.W.	54	69
	Southport	4h. to 7h.	W.N.W.	58	76
	Fleetwood	3h. to 10h.	W.N.W.	66	—
	Gorleston	6h. to 8h.	S.E.	47	60
„ 9 ..	Edinburgh	15h.	S.	47	—
„ 21–22..	Pendennis	16h. 21st. to 2h. 22nd.	E.S.E. to S.	49	59
„ 26 ..	Edinburgh	3h.	S.	47	—

The data for Edinburgh are communicated by the Astronomer Royal for Scotland.
The pressure tube anemometer at Falmouth is exposed at Pendennis Castle. In specifying times of occurrence, the hours are numbered from 1 (1 a.m.) to 24 (midnight)
* The values tabulated are from half-an-hour before to half-an-hour after the completed hours.

(15510—24.) Wt. 103—466. 450. 3/10. D & S.

TABLE III.—SQUALLS WITH GUSTS OF STORM FORCE (velocity above 55 miles per hour, force 10). The entries are additional to those in Table II.

Date. 1909.	Station.	No. of Gusts.	Time of occurrence.	Direction.	Maximum Velocity.
January 7	Holyhead ..	5	15h. 25m. to 17h. 20m.	W.	57
	Southport ..	2	16h. 45m. to 17h.	W.	69
„ 8	Pendennis ..	2	18h. 35m. to 19h. 15m.	N.	60
	Holyhead ..	2	15h. 35m. to 15h. 40m.	N.N.W.	59
	Aberdeen ..	1	At 12h. 55m.	W.N.W.	62
	Alnwick ..	13	13h. 30m. to 15h. 20m.	N.	64
	Shoebury-ness.	1	At 18h. 45m. ..	N.W.	58
„ 11	Holyhead ..	2	At 21h. 30m. and 21h. 55m.	W.	56
„ 12	Holyhead ..	3	6h. 20m. and 7h.	W.N.W.	57
„ 13	Pendennis ..	5	18h. 25m. and 20h. 40m.	W.S.W. to W.	60
„ 13-14	Holyhead ..	38	17h. 10m. 13th and 8h. 30m. 14th.	W.	63
	Southport ..	15	21h. 55m. 13th and 7h. 5m. 14th.	W.	63
„ 15	Pendennis ..	1	At 19h. 25m. ..	S.W.	60
	Holyhead ..	3	0h. 20m. and 2h. 25m.	W.	57
	Aberdeen ..	5	7h. 25m. and 9h. 15m.	W.S.W. to W.N.W.	66
„ 16	Pendennis ..	1	At 2h. 5m. ..	W.S.W.	59
	Holyhead ..	2	At 14h. 20m. and 14h. 25m.	W.	57
	Southport ..	14	11h. 25m. and 15h. 10m.	W. to W.S.W.	69
	Alnwick ..	3	14h. 40m. and 15h.	S.W. to W.N.W.	65
„ 18	Roche's Point	13	4h. 10m. and 9h. 25m.	—	61
	Pendennis ..	2	At 5h. and 5h. 25m.	S.S.W.	59
	Alnwick ..	1	At 12h. 30m. ..	S.	58
„ 29	Aberdeen ..	1	At 21h. 35m. ..	N.W.	57
„ 30	Alnwick ..	1	At 3h. 50m. ..	N.N.W.	56
February 1	Shoebury-ness.	1	At 10h. 35m. ..	—	57
„ 5	Dover ..	2	At 10h. 20m. and 11h. 45m.	—	57
	Gorleston ..	11	11h. 50m and 13h. 10m.	N.W.	60
„ 9	Roche's Point	2	14h. 30m. and 14h. 35m.	—	56
	Pendennis ..	1	At 19h. 35m. ..	S.E.	64
March 7	Aberdeen ..	21	3h. 5m. and 12h. 25m.	E.	62
„ 14	Scilly ..	1	At 21h. 10m. ..	N.	57
	Pendennis ..	2	11h. 55m. and 13h. 15m.	N.	57
„ 18	Pendennis ..	1	At 6h. 0m.	S.	60
„ 24	Pendennis ..	7	15h. 15m. and 18h. 40m.	S.W.	62
„ 25	Pendennis ..	14	10h. 40m. and 15h. 30m.	W. to W.N.W.	60
April 22	Roche's Point	12	0h. 40m. and 7h. 0m.	—	62
	Scilly ..	13	4h. 15m. and 10h. 15m.	S.	60
„ 29	Scilly ..	4	9h. 50m. and 16h. 25m.	W. to W.N.W.	68
	Pendennis ..	1	At 10h. 25m. ..	S.W.	79
May 5	Plymouth ..	4	13h. 50m. and 14h. 30m.	—	59
„ 6	Plymouth ..	1	At 14h. 50m. ..	—	58
„ 7	Plymouth ..	12	12h. 55m. and 15h. 30m.	—	64
„ 8	Plymouth ..	1	At 14h. 20m. ..	—	57
July 10	Roche's Point	1	At 13h. 30m. ..	—	56
„ 25	Holyhead ..		At 9h. 50m. ..	S.S.E.	57
October 7	Roche's Point	2	3h. 50m. to 3h. 55m.	—	58
	Plymouth ..	1	At 13h. 10m. ..	—	58
	Aberdeen ..	2	20h. 5m. and 20h. 50m.	S.	58
„ 8	Roche's Point	1	At 5h. 5m. ..	—	61
	Scilly	1	At 8h. 15m. ..	W.	55
	Pendennis ..	1	At 1h. 30m. ..	N.W.	64
„ 14	Holyhead ..	2	At 20h. 10m. and 21h. 15m.	S.S.W.	60
	Aberdeen ..	3	18h. 25m. to 18h. 45m.	S.	63
„ 21	Holyhead ..	1	At 12h. 45m. ..	W.	60
	Southport ..	2	At 13h. 55m. and 15h. 40m.	—	59
„ 23	Roche's Point	8	15h. 55m. to 16h. 55m.	—	66
	Plymouth ..	17	15h. 10m. to 22h. 25m.	—	66
	Brighton ..	2	23h. 20m. to 23h. 25m.	—	61
„ 24	Scilly	1	At 3h. 15m. ..	W.	59
	Pendennis ..	1	At 11h. 50m. ..	N.W.	57
	Holyhead ..	2	At 4h. 40m. and 5h. 50m.	W.N.W	56
	Southport ..	13	6h. 15m. to 15h. 10m.	—	60
„ 29	Dover ..	5	2h. 30m. to 6h. 45m.	—	61
	Gorleston ..	7	5h. 10m. to 8h. 25m.	N.N.E.	57
November 12	Holyhead ..	1	At 21h. 45m. ..	W.	56
	Aberdeen ..	24	20h. 25m. to 23h. 10m.	W. to N.	70
„ 12-13	Southport ..	19	18h. 0m., 12th, to 2h. 25m., 13th.	W. to W.N.W.	62
	Alnwick ..	5	23h. 40m., 12th, to 0h. 15m., 13th.	N.W.	66
„ 19	Pendennis ..	8	8h. 30m. to 10h. 55m.	E.	58
December 1	Roche's Point	10	8h. 15m. to 13h. 45m.	—	65
	Holyhead ..	23	13h. 20m. to 16h. 20m.	W.N.W.	66
	Shoebury-ness.	6	18h. 55m. to 21h. 40m.	—	63
„ 2	Plymouth ..	2	22h. 0m. to 22h. 5m.	—	60
„ 2-3	Roche's Point	5	21h. 30m., 2nd. to 5h. 5m., 3rd.	—	73
„ 3	Pendennis ..	5	0h. 20m. to 1h. 30m.	W.	63
	Holyhead ..	33	1h. 55m. to 6h. 20m.	N.W. to W.N.W.	69
	Alnwick ..	7	6h. 45m. to 9h. 35m.	N. to N.N.W.	66
	Pryton Hill	3	2h. 45m. to 3h. 35m.	—	66
	Kew	3	3h. 45m. to 4h. 15m.	W.S.W.	59
	Brighton ..	6	0h. 10m. to 11h. 15m.	—	58
	Shoebury-ness.	21	3h. 40m. to 11h. 30m.	—	72
	Dover ..	12	0h. 45m. to 4h. 45m.	—	67
	Gorleston ..	7	4h. 50m. to 11h. 30m.	W.S.W. to W.	65
„ 4	Dover ..	1	At 10h. 10m. ..	—	56
„ 19	Holyhead ..	7	11h. 10m. to 13h. 55m.	N.N.E.	59
„ 21	Roche's Point	25	15h. 0m. to 21h. 15m.	—	65
„ 22	Gorleston ..	21	2h. 45m. to 7h. 35m.	E.S.E.	60

RECORD OF WIND VELOCITY AT ANEMOGRAPH STATIONS IN 1909.

NUMBER OF HOURS during which the MEAN Hourly Velocity came within the limits assigned for the several numbers of the Beaufort scale, with percentage values for each number of the scale.

*** The numbers of the Beaufort Scale are grouped as follows :—
0 calm, 1–3 light winds, 4–7 moderate winds, 8–12 gales and storms.

WESTERN AND SOUTHERN COASTS AND IRISH SEA.

Force by Beaufort Scale.	Corresponding Mean Hourly Velocity.			* Valencia.		‡ Roche's Point.		† Scilly.		* Falmouth.		‡ Pendennis.		‡ Plymouth.		* Glasgow.		* Fleetwood.		‡ Southport.		* Holyhead.		* Kingstown.		† Dublin.		‡ Brighton.	
	In Statute Miles per Hour.	In Feet per Second.	In Metres per Second.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.
0	less than 1.	less than 2.	less than 0·5.	53	1	329	4	80	1	7	0	190	2	852	10	30	0	4	0	17	0	3	0	100	1	636	7	67	1
1	1–3	2–5	0·5–1·5	1,090	12	508	6	367	4	1,368	16	617	7	1,267	14	1,920	22	453	5	384	4	494	6	687	9	1,739	20	1,030	12
2	4–7	6–11	2–3	1,921	21	1,125	13	1,485	17	2,879	33	1,088	13	1,735	19	3,330	38	1,989	23	1,423	16	1,351	15	1,274	16	3,682	42	1,977	23
3	8–12	12–18	3·5–5·5	2,264	26	2,034	23	1,835	21	2,607	30	1,749	20	2,004	23	2,418	28	2,317	26	2,479	28	2,086	24	1,804	22	1,852	21	2,726	31
4	13–18	19–27	6–8	1,902	22	1,957	22	1,822	21	1,450	16	1,951	22	1,738	20	969	11	1,990	23	2,291	26	2,491	28	2,053	25	622	7	2,025	23
5	19–24	28–36	8·5–10·5	1,023	12	1,163	13	1,557	18	387	4	1,352	16	769	9	120	1	1,109	13	1,183	14	1,376	16	1,236	15	141	2	647	7
6	25–31	37–46	11–14	418	5	759	9	905	10	57	1	1,021	12	263	3	15	–	503	6	670	8	680	8	579	7	28	–	132	1
7	32–38	47–56	14·5–17	82	1	187	2	409	5	5	–	452	5	60	1	–	–	204	2	236	3	218	2	230	3	7	–	13	–
8	39–46	57–68	17·5–20·5	7	–	63	1	118	1	–	–	196	2	10	–	–	–	88	1	65	1	54	1	57	1	–	–	1	–
9	47–54	69–80	21–24	–	–	8	–	27	–	–	–	42	–	–	–	–	–	24	–	3	–	7	–	–	–	–	–	–	–
10	55–63	81–93	24·5–28	–	–	–	–	5	–	–	–	9	–	–	–	–	–	2	–	2	–	–	–	–	–	–	–	–	–
11	64–75	94–110	28·5–33·5	–	–	–	–	1	–	–	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–	–	–	–
12	above 75	above 110	34 or above.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Number of hours lost from various causes				–	–	627	7	149	2	–	–	93	1	62	1	18	–	75	1	7	–	–	–	740	1	53	1	142	2

EASTERN COASTS AND INLAND STATIONS.

Force by Beaufort Scale.	Corresponding Mean Hourly Velocity.			* Deerness.		* Aberdeen.		‡ Aberdeen.		* North Shields.		* Yarmouth.		‡ Gorleston.		‡ Shoeburyness.		‡ Dover.		*Armagh.		‡ Alnwick Castle.		* Stonyhurst.		‡ Pyrton Hill.		* Kew.	
	In Statute Miles per Hour.	In Feet per Second.	In Metres per Second.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.
0	less than 1.	less than 2.	less than 0·5.	37	0	22	0	317	4	30	0	40	1	161	2	23	0	436	5	339	4	953	11	145	2	145	2	65	1
1	1–3	2–5	0·5–1·5	519	6	1,185	14	1,154	13	452	5	706	8	595	7	564	6	708	8	3,273	38	1,383	16	2,568	30	522	6	1,805	21
2	4–7	6–11	2–3	1,495	17	3,580	41	2,135	25	2,512	29	2,767	32	1,587	18	1,318	15	1,013	12	3,018	34	1,727	20	3,087	35	1,930	22	2,952	34
3	8–12	12–18	3·5–5·5	2,032	23	2,543	29	2,597	30	3,125	36	2,693	31	2,338	27	2,978	34	1,577	18	1,306	15	2,116	24	1,941	22	2,421	28	2,284	26
4	13–18	19–27	6–8	2,048	23	1,050	12	1,570	18	1,674	19	1,439	16	1,982	23	2,275	26	2,103	24	678	8	1,521	17	787	9	1,479	17	1,250	14
5	19–24	28–36	8·5–10·5	1,434	16	264	3	616	7	470	5	593	7	1,295	14	916	10	1,224	14	109	1	443	5	174	2	324	3	331	4
6	25–31	37–46	11–14	770	9	84	1	198	2	124	2	357	4	508	6	579	7	592	7	9	–	98	1	28	–	86	1	40	–
7	32–38	47–56	14·5–17	306	4	26	–	30	–	29	–	104	1	94	1	60	1	95	1	–	–	17	–	2	–	5	–	1	–
8	39–46	57–68	17·5–20·5	55	1	6	–	22	–	5	–	21	–	15	–	4	–	13	–	–	–	–	–	–	–	2	–	–	–
9	47–54	69–80	21–24	1	–	–	–	–	–	–	–	–	–	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
10	55–63	81–93	24·5–28	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
11	64–75	94–110	28·5–33·5	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
12	above 75	above 110	34 or above.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Number of hours lost from various causes.				63	1	–	–	121	1	339	4	40	–	184	2	43	1	999	11	28	–	502	6	28	–	1,846	21	32	–

* Robinson cup anemometer, Standard size (9 in. cups, 2 ft. arms).
† Do. do. Smaller size (5 in. cups, 1 ft. arms).
‡ Dines Pressure Tube.

Meteorological Office,

March 3rd, 1910.